

CONNECT AND PROTECT

EuropacPRO

08/2022





OVERVIEW

MAIN KATALOG

Cabinets 1

Wall mounted cases 2

Accessories for cabinets and wall mounted cases . . 3

Climate control . . 4

Electronics cases 5

Subracks/ 19" chassis 6

Front panels, plug-in units 7 Systems 8 Power supply

units 9 Backplanes 10

Connectors, front panel component system 11

Appendix 12





Different horizontal rails for various applications



The IEEE handles and shielded front panels are designed for the construction of CompactPCI and VME64x subrack systems



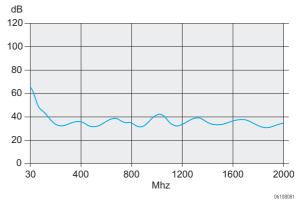
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Sequential numbering on horizontal rails (> 28 HP) and markings on the guide rails provide quick optical positioning aids. ESD clips can be used at front or rear, to protect electronics from electrostatic discharge

STANDARDS/CERTIFICATIONS

- Inner and outer dimensions meet: IEC 60297-3-100, -101, - 102, -103, -104, -105 IEEE 1101.1 and IEEE 1101.10/11
- Type of protection IP 20 to IEC 60529
- EMC testing to IEC 61587-3
- Shock and vibration test reports: German "Bahn" standards BN 411002, BN 411003; NF F 60002, NF F 67012 IEC 61587-2, EN 50155, part 12.2.11
- Nuclear plants KTA 1401

EMC CURVE

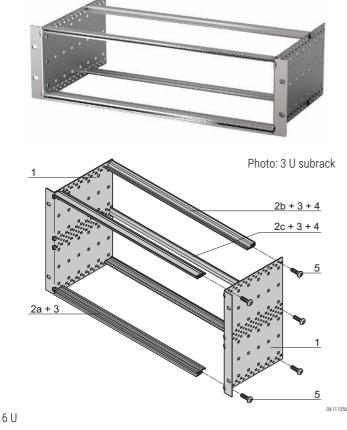




OVERVIEW		Overview 6.6
 19" SUBRACKS Kits or individual configuration One product and accessories pl customer requirement and appl 	atform for every kind of ication	
 Suitable for CompactPCI and VI EMC shielding can easily be ret Shock and vibration resistant up 3D PDF or CAD 3D data available 	o to 5 g	Introduction 6.4
	 KITS All required parts available under one order number, some pre-fitted Most popular dimensions and versions available from stock For installed loads up to 7.5 kg, up to 11 kg and up to 15 kg As unshielded or shielded version Supplied as space-saving flat-pack 	Kits Light
	SERVICEPLUS INDIVIDUAL CONFIGURATION	ServicePLUS configuration Side panels 6.21 Horizontal rails, threaded inserts, perforated strips . 6.29 Guide rails 6.37 Cover plates 6.44 EMC shielding 6.54
	 Single parts may individually be configured, respectively assembled on request (from quantity 1) Very wide range of variants in heigth, width and depth Guide rails for different applications 	Interior assemblies. 6.59 Assembly kits 6.65 Application examples 6.71
	 EMC shielding material to improve EMC performance Interior assembly options with mounting plate or combined mounting (3 + 6 U segments) Other accessories and assembly kits 	Subracks for mobile railway applications 6.70
	SERVICEPLUS e.g. individual configuration and assembly e.g. modification (cut-outs) e.g. downloads (CAD drawings, user manuals, test reports)	europacPRO for industrial applications 6.86
	e.g. custom solutions	europacPRO for rugged applications 6.92



KIT, "LIGHT", UNSHIELDED, FOR BACKPLANE MOUNTING



D1 D

D = overall depth, D1 = insertion depth, D2 = board depth = D1 - 15 mm



Rear horizontal rail for backplane mounting with insulation strip

- Subrack with side panel type L ("light") with firmly fixed 19" brackets
- Rear horizontal rails for backplane mounting with insulation strip
- Installed load up to 7.5 kg
- Cost-optimised

DELIVERY COMPRISES (Kit)

Item	Qty		Description
	3 U	6 U	
1	2	2	Side panel type L, Al, 2 mm, passivated, with built-in 19" support bracket
2a	2	2	Front horizontal rail (L-KD)
2b	2	2	Rear horizontal rail (L-ST)
2c	-	1	Rear horizontal rail centre (ST)
3	4	6	Threaded insert, front and rear (pre-fitted)
4	2	4	Insulation strip (pre-fitted)
5	1	1	Fixing material kit, user manual

ORDER INFORMATION

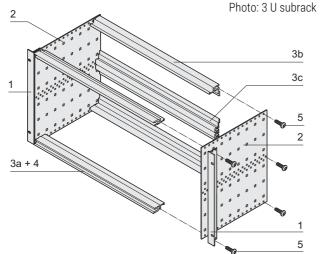
Height	Width	Depth D	Depth D1	Part no.
U	HP	mm	mm	
3	84	175	175	24564-131
3	84	235	175/235	24564-132
3	84	295	175/235/295	24564-133
б	84	175	175	24564-431
6	84	235	175/235	24564-432
6	84	295	175/235/295	24564-433
Accessor	ies			
	oly kit (screw, w s, 8 × plastic wa	vasher, nut) Ishers, 8 × cage	nuts)	21100-435
Trims for s unit 1 piece		e (19" angle) type	e L, 3 U, packaging	34561-197
T.:				
unit 1 piec		e (19" angle) typ	e L, 6 U, packaging	34561-497
		e (19" angle) typ	e L, 6 U, packaging	34561-497 21100-565
unit 1 piec Collar scre	e w with slot M6	x 16, St, nickel-p	lated, PU 100 pieces	
unit 1 piec Collar scre	e w with slot M6	x 16, St, nickel-p		21100-565
unit 1 piec Collar scre <mark>Geidesrafi</mark>	e w with slot M6	x 16, St, nickel-p	lated, PU 100 pieces	21100-565
unit 1 piec Collar scre Seivestafi Depth D2	e w with slot M6	x 16, St, nickel-p	lated, PU 100 pieces panel, PU 100 pieces	21100-565 21100-566
unit 1 piec Collar scre Seidesrafi Depth D2 mm	e w with slot M6	x 16, St, nickel-p	lated, PU 100 pieces panel, PU 100 pieces Qty/PU	21100-565 21100-566
unit 1 pieco Collar scre Gettesrafi Depth D2 mm 160	e w with slot M6	x 16, St, nickel-p	lated, PU 100 pieces panel, PU 100 pieces Qty/PU piece	21100-565 21100-566 Part no.
unit 1 piec Collar scre Sett/esrafi Depth D2 mm 160 220 280	e w with slot M6 ઙ (કેરલkdard) ,	x 16, St, nickel-p	lated, PU 100 pieces panel, PU 100 pieces Qty/PU piece 10	21100-565 21100-566 Part no. 24568-361
unit 1 piec Collar scre Settes fait Depth D2 mm 160 220 280 ESD clips f	e w with slot M6 S (Stackdard), or guide rails P1	x 16, St, nickel-p ESDoctipe side	lated, PU 100 pieces panel, PU 100 pieces Qty/PU piece 10 10 10	21100-565 21100-566 Part no. 24568-361 24568-362
unit 1 piece Collar scree GetVesrain Depth D2 mm 160 220 280 ESD clips f	e w with slot M6 S (Stackdard), or guide rails P1	x 16, St, nickel-p ESDoctipe side	lated, PU 100 pieces panel, PU 100 pieces Qty/PU piece 10 10	21100-565 21100-566 Part no. 24568-361 24568-362 24568-379
unit 1 piece Collar scree Geidesrafi Depth D2 mm 160 220 280 ESD clips f Cover pla	e w with slot M6 S (Stackdard), or guide rails P1	x 16, St, nickel-p G3Doclipts side U 50 pieces ion in horizon	lated, PU 100 pieces panel, PU 100 pieces Qty/PU piece 10 10 10	21100-565 21100-566 Part no. 24568-361 24568-362 24568-379
unit 1 piece Collar scree Stelves rain Depth D2 mm 160 220 280 ESD clips f	e w with slot M6 is (এইলেওেdলেd), or guide rails Pi tes for insert	x 16, St, nickel-p G3Doclipts side U 50 pieces ion in horizon	lated, PU 100 pieces panel, PU 100 pieces Qty/PU piece 10 10 10 10 tal rails (type L)	21100-565 21100-566 Part no. 24568-361 24568-362 24568-379 24560-255
unit 1 piece Collar scree Seiderali Depth D2 mm 160 220 280 ESD clips f Cover pla Depth D2	e w with slot M6 is (এইলেকেবেট), or guide rails Pi tes for insert Wid	x 16, St, nickel-p G3Doclipts side U 50 pieces ion in horizon	lated, PU 100 pieces panel, PU 100 pieces Qty/PU piece 10 10 10 10 tal rails (type L) Qty/PU	21100-565 21100-566 Part no. 24568-361 24568-362 24568-379 24560-255

NOTE

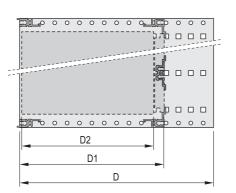
• Subrack is not prepared for shielding

KIT, "FLEXIBLE", UNSHIELDED, FOR CONNECTOR MOUNTING





6 U



D = overall depth, D1 = insertion depth, D2 = board depth = D1 - 15 mm



Horizontal rail to rear for connector mounting

- Subrack with side panel type F ("flexible"), 19" bracket is depth-adjustable
- Rear horizontal rails for connector mounting (IEC 60603-2 / DIN 41612)
- Installed load up to 11 kg

DELIVERY COMPRISES (kit)

Item	Qty		Description
	3 U	6 U	
1	2	2	19" support bracket, Al extrusion, for EMC gasket (St, stainless)
2	2	2	Side panel type F, Al, 2 mm
За	2	2	Front horizontal rail (L-KD)
Зb	2	2	Rear horizontal rail (L-MZ) for connector mounting
3c	-	1	Centre horizontal rail (MZ)
4	2	2	Threaded insert to front (pre-fitted)
5	1	1	Fixing material kit, user manual

ORDER INFORMATION

Height	Width	Depth D	Depth D1	Part no.
U	HP	mm	mm	
3	84	175	175	24563-191
3	84	235	175/235	24563-192
3	84	295	175/235/295	24563-193
3	84	355	175/235/295/355	24563-194
6	84	175	175	24563-491
6	84	235	175/235	24563-492
6	84	295	175/235/295	24563-493
6	84	355	175/235/295/340	24563-494

Accessories

06105054

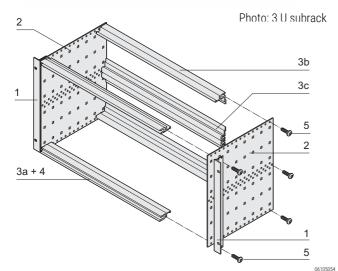
19" assembly kit (8 × screws, 8 ×	21100-435		
Guide rails (st	tandard), ESD clips		
Depth D2		Qty/PU	Part no.
mm		piece	
160		10	24568-361
220		10	24568-362
280		10	24568-379
340		10	24568-380
ESD clip for guid	le rails PU 50 pieces		24560-255
Cover plates f	or insertion in hor	izontal rails (type L)	
Depth D2	Width	Qty/PU	Part no.
mm	HP	piece	
160	84	2	24561-051
220	84	2	24561-052



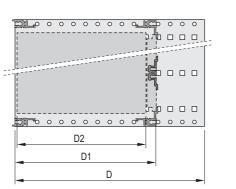


KIT, "FLEXIBLE", UNSHIELDED FOR CONNECTOR, ASSEMBLY ON SLIDE RAIL





6 U



D=overall depth, D1=insertion depth, D2=board depth = D1 - 15 mm



Rear horizontal rail for connector mounting

- Subrack can be used with slide rails
- Subrack with side panel type F ("flexible"), 19" bracket with notch for slide rail assembly
- Horizontal rails, rear, for connector mounting (IEC 60603-2 / DIN 41612)
- Installed load up to 11 kg

DELIVERY INCLUDES (Kit, flat pack)

Qty		Description
3 U	6 U	
2	2	19" support bracket, Al extrusion, for EMC sealing (St, stainless)
2	2	Side panel type F, Al, 2 mm
2	2	Front horizontal rail (L-KD)
2	2	Rear horizontal rail (L-MZ) for connector mounting
-	1	Center horizontal rail (MZ)
2	2	Threaded insert to front (pre-fitted)
1	1	Fixing materials kit, user manual
	3 U 2 2 2 2 2 -	3 U 6 U 2 2 2 2 2 2 2 2 2 2 2 2 2 1

ORDER INFORMATION

Height	Width	Depth D	Depth D1	Part no.	
U	HP	mm	mm		
3	84	235	175/235	24553-192	
3	84	295	175/235/295	24553-193	
3	84	355	175/235/295/355	24553-194	
6	84	235	175/235	24553-492	
6	84	295	175/235/295	24553-493	
6	84	355	175/235/295/355	24553-494	
Accesso	ories				
19" fixing	material kit	(screw, washe	er, nut)	01100 405	
(8 × screv	ws, 8 × plast	ic washers, 8 ×	cage nuts)	21100-435	
Guide rails (standard), ESD clips					
Depth D2			Qty/PU	Part no.	
mm			niece		

mm		piece	
160		10	24568-361
220		10	24568-362
280		10	24568-379
ESD clip for guid	de rails Spring steel, t	in-plated, silver, PU 50 pi	eces 24560-255
Cover plates f	or insertion into h	orizontal rail type L	
Depth D2	Width	Qty/PU	Part no.
mm	HP	piece	
160	84	2	24561-051
220	84	2	24561-052

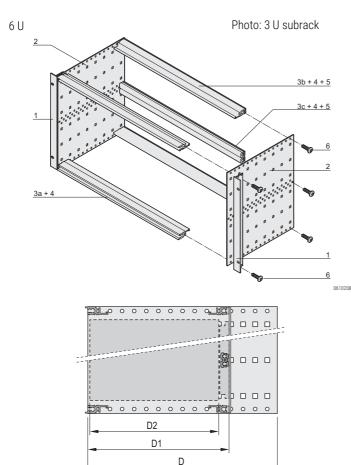
NOTE

 Alternative product for legacy Europac Lab and Europac Rational subrack series

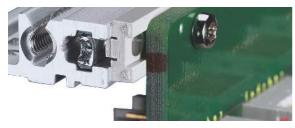
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KIT, "FLEXIBLE", UNSHIELDED, FLEXIBLE FOR BACKPLANE, ASSEMBLY ON SLIDE RAIL





D=overall depth, D1=insertion depth, D2=board depth = D1 - 15 mm



Rear horizontal rail for backplane mounting with insulation strip

- Subrack can be used with slide rails
- Subrack with side panel type F ("flexible"), 19" bracket is depth-adjustable
- Rear horizontal rails for backplane mounting with insulation strip
- Installed load up to 11 kg

DELIVERY INCLUDES (Kit, flat pack)

ltem	Qty		Description
1	3 U	6 U	
1	2	2	19" support bracket, Al extrusion, for EMC sealing (St, stainless)
2	2	2	Side panel type F, Al, 2 mm
3a	2	2	Front horizontal rail (L-KD)
3b	2	2	Rear horizontal rail (L-ST) for backplane mounting
3c	-	1	Rear center horizontal rail (ST)
4	4	б	Threaded inserts, front and rear (pre-fitted)
5	2	4	Insulation strip (pre-fitted)
6	1	1	Fixing materials kit, user manual

ORDER INFORMATION

Height U	Width HP	Depth D mm	Depth D1 mm	Part no.
3	84	235	175/235	24553-132
3	84	295	175/235/295	24553-133
3	84	355	175/235/295/355	24553-134
6	84	235	175/235	24553-432
6	84	295	175/235/295	24553-433
6	84	355	175/235/295/355	24553-434
Access	ories			
10" fiving	, motorial k	it (aarow wook	or put)	

(8 × screws, 8 ×	21100-435		
Guide rails (st	tandard), ESD clips	•	
Depth D2		Qty/PU	Part no.
mm		piece	
160		10	24568-361
220		10	24568-362
280		10	24568-379
340		10	24568-380
ESD clip for guid	de rails Spring steel, ti	n-plated, silver, PU 50 pieces	24560-255
Cover plates f			
Depth D2	Width	Qty/PU	Part no.
mm	HP	piece	
160	84	2	24561-051
220	84	2	24561-052

NOTE

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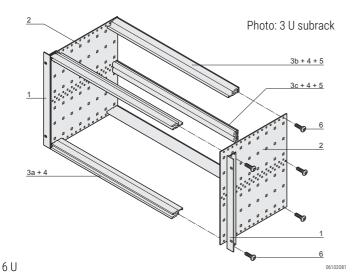
0440000

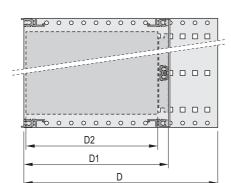
 Alternative product for legacy Europac Lab and Europac Rational subrack series











D = overall depth, D1 = insertion depth, D2 = board depth = D1 - 15 mm



Rear horizontal rail for backplane mounting with insulation strip

- Subrack with side panel type F ("flexible"), 19" bracket is depth-adjustable
- · Rear horizontal rail for backplane mounting with insulation strip
- Installed load up to 11 kg

DELIVERY COMPRISES (kit)

Item	Qty		Description
	3 U	6 U	
1	2	2	19" support bracket, Al extrusion, for EMC stainless steel gasket
2	2	2	Side panel type F, Al, 2 mm
За	2	2	Front horizontal rail (L-KD)
3b	2	2	Rear horizontal rail (L-ST) for backplane mounting
3c	-	1	Rear horizontal rail centre (ST)
4	4	б	Threaded insert, front and rear (pre-fitted)
5	2	4	Insulation strip (pre-fitted)
6	1	1	Fixing material kit, user manual

ORDER INFORMATION

Height	Width	Depth D	Depth D1	Part no.
U	HP	mm	mm	
3	84	175	175	24563-131
3	84	235	175/235	24563-132
3	84	295	175/235/295	24563-133
3	84	355	175/235/295/355	24563-134
3	84	415	175/235/295/355	24563-135
3	84	475	175/235/295/355	24563-136
6	84	175	175	24563-431
6	84	235	175/235	24563-432
6	84	295	175/235/295	24563-433
6	84	355	175/235/295/355	24563-434
6	84	415	175/235/295/355	24563-435
6	84	475	175/235/295/355	24563-436
Accesso	ories			

0610805

19" assembly kit (screw, washer, nut)

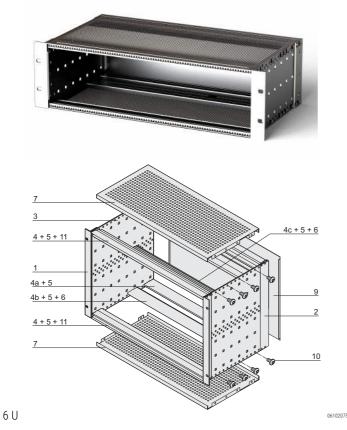
(8 × screws, 8 × plastic wash	21100-435	
Guide rails (standard), E		
Depth D2	Qty/PU	Part no.
mm	piece	
160	10	24568-361
220	10	24568-362
280	10	24568-379
340	10	24568-380

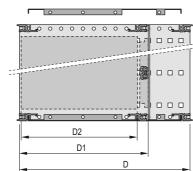
ESD clip for guid	24560-255		
Cover plates f			
Depth D2	Width	Qty/PU	Part no.
mm	HP	piece	
160	84	2	24561-051
220	84	2	24561-052



KIT, "FLEXIBLE", SHIELDED, FOR BACKPLANE MOUNTING







D = overall depth, D1 = insertion depth, D2 = board depth = D1 - 15 mm



Rear horizontal rail for backplane mounting with insulation strip

- Subrack with side panel type F ("flexible"), 19" bracket is depth-adjustable
- Rear horizontal rail for backplane mounting with insulation strip
- Shielding typically 40 dB at 1 GHz, 30 dB at 2 GHz, assuming that the front is closed with shielded front panels
- Installed load up to 11 kg

DELIVERY COMPRISES ((kit))

Item	Qty		Description
	3 U	6 U	
1	2	2	19" support bracket for EMC textile gasket
2	2	2	Rear corner profile for EMC textile gasket
3	2	2	Side panel type F
4	2	2	Front horizontal rail (L-KD)
4 a	2	2	Rear horizontal rail (L-KD)
4 b	2	2	Rear horizontal rail (L-ST) for backplane mounting with insulation strip
4 c	-	1	Centre horizontal rail (ST)
5	6	8	Threaded insert (pre-fitted)
6	2	4	Insulation strip, fixed
7	2	2	EMC cover plate
8	1	1	EMC gasketing material (pre-fitted)
9	1	1	Rear panel
10	1	1	Fixing material kit
11	2	2	Perforated strip (pre-fitted)
12	1	1	User manual

ORDER INFORMATION

Height	Width	Depth D	Depth D1	Part no.
U	HP	mm	mm	
3	84	235	175	24563-142
3	84	295	175/235	24563-143
3	84	355	175/235/295	24563-144
3	84	415	175/235/295	24563-145
3	84	475	175/235/295	24563-146
6	84	235	175	24563-442
6	84	295	175/235	24563-443
б	84	355	175/235/295	24563-444
6	84	415	175/235/295	24563-445
6	84	475	175/235/295	24563-446

Accessories

19" assembly kit (screw, washer, (8 × screws, 8 × plastic washers, 8	21100-435	
Guide rails (standard), ESD c		
Depth D2	Qty/PU	Part no.
mm	piece	
160	10	24568-361
220	10	24568-362
280	10	24568-379
ESD clip for guide rails PU 50 piec	ces	24560-255

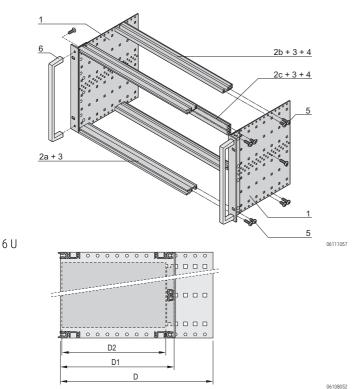


KIT, 'HEAVY', UNSHIELDED, FOR BACKPLANE MOUNTING



Without front handle

With front handle



D = overall depth, D1 = insertion depth, D2 = board depth



Rear horizontal rail for backplane mounting with insulation strip



Front handle position

- Subrack with side panel type H ("heavy"), 19" bracket is firmly fixed to side panel (tox-cold welded)
- Rear horizontal rail for backplane mounting with insulation strip
- Shock and vibration resistance up to 5 g
- Installed load up to 15 kg
- Versions with/without front handles

DELIVERY COMPRISES (Kit)

Item	Qty		Description
	3 U	6 U	
1	2	2	Side panel type H, Al, 2 mm, passivated, with 19" support bracket (tox-cold welded) for textile EMC gasket
2a	2	2	Front horizontal rail (H-KD)
2b	2	2	Rear horizontal rail (H-ST)
2c	-	1	Rear horizontal rail centre (H-ST)
3	4	6	Threaded insert, front and rear (pre-fitted)
4	2	4	Insulation strip (pre-fitted)
5	1	1	Fixing material kit, user manual
б	2	2	Front handle, angled version (on version with front handle only)

ORDER INFORMATION

Height U	Width HP	Depth D mm	Depth D1 mm	Part no. with front handle	Part no. without front handle
3	84	175	175	24567-161	24563-161
3	84	235	175/235	24567-162	24563-162
3	84	295	175/235/295	24567-163	24563-163
3	84	355	175/235/295/355	24567-164	24563-164
6	84	175	175	24567-461	24563-461
6	84	235	175/235	24567-462	24563-462
6	84	295	175/235/295	24567-463	24563-463
6	84	355	175/235/295/355	24567-464	24563-464

Accessories

19" assembly k (8 × screws, 8 ×	21100-435						
Guide rails (s	tandard), ESD clip	s ,					
Depth D2		Qty/PU	Part no.				
mm		piece					
160		10	24568-361				
220		10	24568-362				
280		10	24568-379				
340		10	24568-380				
ESD clip for gui	24560-255						
	Torx panhead screw , for extra bolting of the guide rails, 2.5×9.3 , zinc-plated, PU 100 pieces; torque max. 0.2 Nm						
Cover plates	for bolting to side	panel					
Depth D2	Width	Qty/PU	Part no.				
mm	HP	piece					
160	84	2	24560-078				
220	84	2	24560-079				
280	84	2	24560-080				
340	84	2	24560-081				

Remark:

- ServicePLUS from page 6.18
- The slightly angled front handles facilitate access to the fixing screws. (Screwing into a 19" Cabinet)

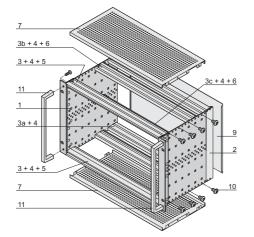
The handle are screwed from the rear side of the 19" bracket

KIT, "HEAVY", SHIELDED, FOR BACKPLANE MOUNTING

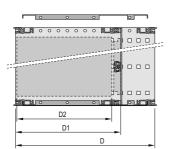


Without front handle

With front handle



6 U



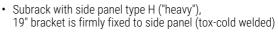
D = overall depth, D1 = insertion depth, D2 = board depth = D1 - 15 mm



Rear horizontal rail for backplane mounting with insulation strip



Front handle position



- Rear horizontal rail for backplane mounting with insulation strip
- Shielding typically 40 dB at 1 GHz, 30 dB at 2 GHz, assuming that the front is closed with sealed front panels
- Shock and vibration resistance up to 5 g
- Installed load up to 15 kgVersions with/without front handles

DELIVERY COMPRISES (Kit)

ltem	Qty 3 U	6 U	Description
1	2	2	Side panel type H, Al, 2 mm, passivated, with 19" support bracket (tox-cold welded) for textile EMC gasket
2	2	2	Rear corner profile for textile EMC gasket
3	2	2	Front horizontal rail (H-KD)
3а	2	2	Rear horizontal rail (H-KD)
3 b	2	2	Rear horizontal rail (H-ST)
3с	-	1	Rear horizontal rail centre (ST)
4	6	8	Threaded insert (pre-fitted)
5	2	2	Perforated strip (pre-fitted)
6	2	4	Insulation strip (pre-fitted)
7	2	2	EMC cover plate
8	1	1	EMC gasketing material (pre-fitted)
9	1	1	EMC rear panel
10	1	1	Fixing material kit, user manual
11	2	2	Front handle, angled version (on version with front handle only)

ORDER INFORMATION

06111058

06113055

Height U	Width HP	Depth D mm	Depth D1 mm	Part no. with front handle	Part no. without front handle
3	84	235	175	24567-172	24563-172
3	84	295	175/235	24567-173	24563-173
3	84	355	175/235/295	24567-174	24563-174
6	84	235	175	24567-472	24563-472
6	84	295	175/235	24567-473	24563-473
б	84	355	175/235/295	24567-474	24563-474

Accessories

19" assembly kit (screw, washer, nut) (
	、 、	21100-435
8 × screws, 8 × plastic washers, 8 × cage nuts	3)	
Guide rails (standard), ESD clips		
Depth D2	Qty/PU	Part no.
mm	piece	
160	10	24568-361
220	10	24568-362
280	10	24568-379
ESD clip for guide rails PU 50 pieces		24560-255
Tany nambasal assault fan autor halting af tha	muide neile O.F. C	0

Torx panhead screw , for extra bolting of the guide rails, 2.5 × 9.3, zinc-plated, PU 100 pieces; torque max. 0.2 Nm 24560-141

Remark:

- ServicePLUS from page 6.18
- The slightly angled front handles facilitate access to the fixing screws. (Screwing into a 19" Cabinet)

The handle are screwed from the rear side of the 19" bracket

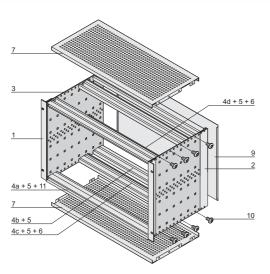


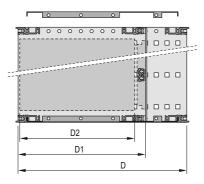


KIT, "FLEXIBLE", FOR COMPACTPCI, FOR BACKPLANE MOUNTING, WITHOUT REAR I/O, SHIELDED









D = overall depth, D1 = insertion depth, D2 = board depth = D1 - 15 mm



Rear horizontal rail for backplane mounting with insulation strip

- Subrack with side panel type F ("flexible") for CompactPCI plug-in units with high insertion and withdrawal forces
- Rear horizontal rail for backplane mounting with insulation strip
- Shielding typically 40 dB at 1 GHz, 30 dB at 2 GHz, assuming that the front is covered with shielded front panels
- Installed load up to 11 kg

DELIVERY COMPRISES (kit)

Item	Qty		Description
	3 U	6 U	
1	2	2	19" support bracket for EMC textile gasket
2	2	2	Rear corner profile for EMC textile gasket
3	2	2	Side panel type F
4	1	-	Front horizontal rail (H-KD)
4 a	1	2	Front horizontal rail IEEE (H-LD)
4 b	2	2	Rear horizontal rail (L-KD)
4 c	2	2	Rear horizontal rail (H-ST), for backplane mounting with insulation strip
4 d	-	1	Centre horizontal rail (ST)
5	6	8	Threaded insert (pre-fitted)
6	2	4	Insulation strip (pre-fitted)
7	2	2	EMC cover plate
8	1	1	EMC gasketing material (pre-fitted)
9	1	1	Rear panel
10	1	1	Fixing material kit
11	2	2	Perforated strip (pre-fitted in item 4+4a)
12	1	1	User manual

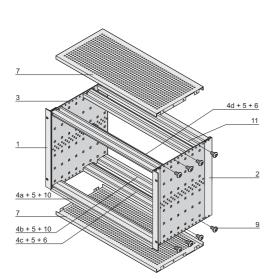
ORDER INFORMATION

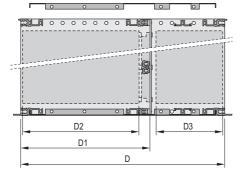
06102078

Height	Width	Depth D	Depth D1	Part no.
U	HP	mm	mm	i artilo.
3	84	235	175	24563-152
6	84	235	175	24563-452
Accessori	es			
	ith coding, red 16 -0, groove width	60 mm deep, 2 mm, PU 10 piece	es	24568-356
	ith coding, grey 1 -0, groove width	60 mm deep, 2 mm, PU 10 piece	es	24568-358
		, offset 160 mm d 2 mm, PU 10 piece		24568-359
ESD clip for	guide rails PU 50) pieces		24560-255
ESD clip for	alignment pin of	CPCI/VME64x ha	ndle PU 50 pieces	24560-256
Torx panhea PU 100 piec	24560-141			
Coding peg	20817-501			
19" assemb 8 × screws,	21100-435			

SUBRACK KIT, "FLEXIBLE", FOR COMPACTPCI, FOR BACKPLANE MOUNTING, FOR REAR I/O, SHIELDED







D = overall depth, D1 = insertion depth,

6 U

D2 = board depth = D1 - 15 mm, D3 = rear I/O board depth



Rear horizontal rail for backplane mounting with insulation strip

• Subrack with side panel type F ("flexible") for CompactPCI plug-in units with high insertion and withdrawal forces

ent

SCHROFF

- For rear I/O boards (depth 80 mm)
- Rear horizontal rail for backplane mounting with insulation strip
- Shielding typically 40 dB at 1 GHz, 30 dB at 2 GHz, assuming that the front is covered with shielded front panels
- Installed load up to 11 kg

DELIVERY COMPRISES (kit)

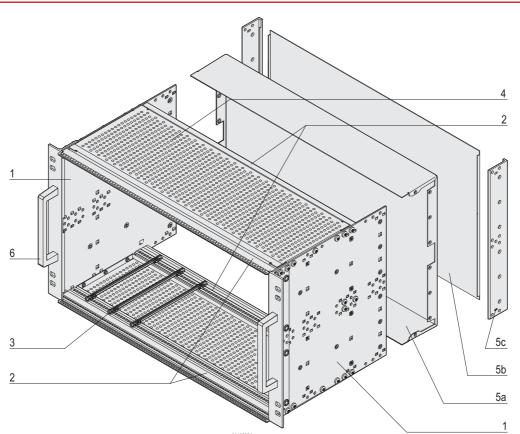
ltem	Qty		Description
	3 U	6 U	
1	2	2	19" support bracket for EMC textile gasket
2	2	2	Rear corner profile for EMC textile gasket
3	2	2	Side panel type F
4	1	-	Front horizontal rail (H-KD)
4 a	1	2	Front horizontal rail IEEE (H-LD)
4 b	2	2	Rear horizontal rail (H-KD)
4 c	2	2	Rear horizontal rail (H-ST), with insulation strip for backplane mounting
4 d	-	1	Centre horizontal rail (ST)
5	6	8	Threaded insert (pre-fitted)
6	2	4	Insulation strip, fixed
7	2	2	EMC cover plate
8	1	1	EMC gasketing material (pre-fitted)
9	1	1	Fixing material kit
10	2	2	Perforated strip (pre-fitted)
11	2	2	Horizontal rail type AB
12	1	1	User manual

ORDER INFORMATION

06105076

Height	Width	Depth D	Depth D1	Depth D3	Part no.
U	HP	mm	mm	mm	
3	84	275	175	80	24563-157
б	84	275	175	80	24563-457
Accesso	ries				
	U .	ed 160 mm de ridth 2 mm, PU			24568-356
	0.0	rey 160 mm de ridth 2 mm, PU			24568-358
	0.0	reen, offset 16 ridth 2 mm, PU			24568-359
ESD clip fo	or guide rails l	PU 50 pieces			24560-255
ESD clip fo	or alignment p	oin of CPCI/VM	E64x handle P	U 50 pieces	24560-256
Guide rail	with coding, r	ed 70 mm dee	p, PU 10 piece	S	24568-357
Guide rail	with coding, g	rey 70 mm dee	ep, PU 10 piec	es	24568-360
Torx panh max. 0.2 N	24560-141				
Coding pe	20817-501				
19" fixing 8 × screws	21100-435				

OVERVIEW OF INDIVIDUAL COMPONENTS FOR SHIELDED OR UNSHIELDED SUBRACKS

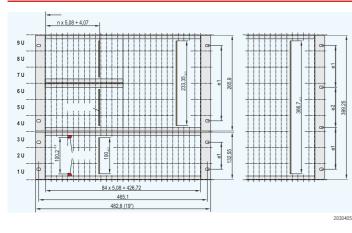


		06108086	
Item	Description	Description	page
Item 1	Side panel	Establishes the height and depth of the subrack; Al, 2 mm, with universal hole positions for assembly of accessories. Three versions: The "flexible" one with separate 19" brackets as well as two others with integrated 19" brackets for "light" and "heavy" applications.	6.21
Item 2	Horizontal rail	Establishes the width of the subrack; Al extrusion, with defined hole positions for guide rails, grooves for threaded inserts, M4 thread, functional rail shapes, basically differing with regard to their mechanical loading capacity: "light" (load up to 7.5 kg) and "heavy" (load > 7.5 kg).	6.29
ltem 3	Guide rails	Act as interface between subracks and boards, for different board formats, are available in plastic or metal, optionally codable and can be fitted with ESD clips to allow electrostatic discharge, also optionally.	6.37
Item 4	Cover plates	Provide mechanical protection and/or EMC shielding and are perforated.	6.44
ltem 5	Rear/front	Rear hood (5a) or front panel (5b) with corner profile (5c) act as support for EMC shielding gaskets used in conjunction with shielded front panels. Note: Rear hood and corner profile cannot be fitted simultaneously.	6.49
ltem 6	Handles	Can be mounted on the 19" brackets.	6.27
-	EMC shielding (without illustration)	Extensive component range for specific shielding of subracks with respect to their application.	6.54
_	Interior assemblies (without illustration)	Universal assemblies, e.g. for horizontal and vertical assembly and for mounting plates.	6.59





SUBRACK DIMENSIONS



- Dimensions in accordance with international standards • EC 60297-3-100, IEEE 1101.1/.10/.11; please see the SCHROFF Standards Summary for details
- Side panels
 - Aluminium, 2 mm •
 - Round holes for mounting horizontal rails (depth grid 15 mm)
 - Impressions on the inner side of the side panel act as an • anti-rotation guard and positioning aid for the horizontal rails
 - Square holes (6 x 6 mm) provide universal fixing for components such as backplane shielding; version without square holes available on request

Depth grid

The depth grid is 15 mm, the mounting holes in the side panel are decisive for the configurability of individual components; thus any combination of various individual parts is possible

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3 and 6 U side panels have the same hole positions (the 6 U is a doubling vertically of the 3 U); thus subdivisions can be made in the vertical dimension (6 U: 2 x 3 U; 9 U: 3 x 3 U)



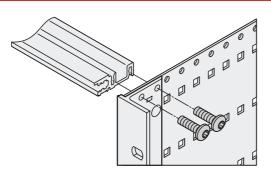
Side panel 4 U

Side panel 3 U, 6 U and 9 U

4 U side panels have the same hole positions as 3 U and additionally 1 U (above or beneath the 3 U installation); this height allows the construction of a 3 U unit with 1 U clearance for cabling or airflow



SIDE PANELS



Side panel - horizontal rail assembly

- Aluminium
- Round holes for mounting horizontal rails (depth grid 15 mm)
- Impressions on the inner side of the side panel act as an anti-rotation guard and positioning aid for the horizontal rails
- Square holes (6 x 6 mm) provide universal fixing for components such as backplane shielding; version without square holes available on request
- Only one type of screw driver (T20) is needed for the assembly Torx panhead screw, M4 x 14; Torque side panel - horizontal rail 2.4 Nm; Torque side panel - cover plate 1.3 Nm
- 4 versions of the side panel:
 - Type F = flexible

06108062

- Type H = heavy
- Type L = light
- Type R = rugged







Type F (flexible)

- Universal version: 19" bracket (please order separately) can be fitted variably to front, rear or depth-offset
- Heights: 3, 4, 6 and 9 U Depths: 175, 235, 275, 277.75, 295, 355, 415 and 475 mm; Other dimensions on request
- 2 EMC shielding concepts for the front/rear: stainless steel or textile EMC gasket
- Installed load up to 11 kg

Type H (heavy)

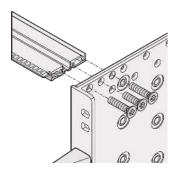
- 19" bracket is tox-cold welded to side panel; particularly designed for mechanically demanding environments (vibration resistance, applications requiring high levels of shock and vibration, e.g. IEC 61587-2)
- Heights: 3 and 6 U Depths: 175, 235, 295 and 355 mm Other dimensions on request
- 2 EMC shielding concepts for the front/rear: with stainless steel or textile EMC gasekt
 - Installed load up to 15 kg

Type L (light)

- Side panel with moulded 19" bracket, for standard applications, unshielded
- Particularly cost-effective version (not suitable for EMC applications)
- Heights: 3 and 6 U Depths: 175, 235 and 295 mm Other dimensions on request
- Installed load up to 7.5 kg



SIDE PANELS



Example shows:

Side panel type rugged to horizontal rail type rugged



- Aluminium
- Round holes for mounting horizontal rails (depth grid 15 mm)
- Impressions on the inner side of the side panel act as an anti-rotation guard and positioning aid for the horizontal rails
- Square holes (6 x 6 mm) provide universal fixing for components such as backplane shielding; version without square holes available on request
- Only one type of screw driver (T20) is needed for the assembly. Torx countersunk screw, M4 x 18; (with thread locking compound) Torque side panel - horizontal rail 2.4 Nm; Torque side panel - cover plate 1.3 Nm)

Type R (rugged)

- 19" bracket (3,5mm) is tox-cold welded to side panel (3mm); particularly designed for mechanically demanding environments.
- Shock and vibration tested in compliance with: DIN EN 61587 -DL3 up to 25g MIL 167, MIL 810G, MIL 901D.
 Shock and vibration resistant in all three axial directions.
- Heights: 3 and 6 U Depths: 175, 235, 275, 277,75, 295 and 355 mm. Other dimensions on request
- **One** EMC shielding concepts for front/rear side: Textile EMC gasket (-40°C up to +85°C)
- Installed load up to 25 kg



SIDE PANELS TYPE F FOR STAINLESS STEEL GASKET

ORDER INFORMATION

			Side panel type F	19" bracket without handle holes	19" bracket with handle holes	19" bracket depth- adjustable	EMC gasket (stainless steel)	Rear angle	Side panel connection
			06197003	d d d d d d d d d d d d d d d d d d d	06106050	06102501	Jo J BGA45760	B2A45573	PAA5867
		1 1 1 1 1 1 1 1 1 1	without 19" bracket, Al, 2 mm, passivated, please order 19" bracket and corner profile separately	with lateral grooves for stainless steel EMC gasket, Al extrusion, rear side etched, front anodised	with lateral grooves for stainless steel EMC gasket, Al extrusion, rear side etched, front anodised please order front handles separately,	Al extrusion, passivated	inserted laterally into the grooves of the front panel	Al extrusion, surface clear passivated; with lateral grooves for stainless steel EMC gasekt; rear hood cannot be mounted simultaneously	Zn die-cast, incl. fixing material kit, for connecting two by two side panels (on top of each other)
Height	Depth			DU 4		DU 4	DU 10		
U 3	mm 175		1 piece 34560-185	PU 1 pair	PU 1 pair	PU 1 pair	PU 10 pieces	PU 1 pair	PU 4 pieces
3	235		34560-185						
3	275	1)	34579-300						
3	277.75	,	34579-002						
3	295	2)	34560-189	24560-197	24560-198	24560-199	21101-705	24561-198	21101-954
3	355		34560-191						
3	415		34560-193						
3	475		34560-195						
4	175	3)	34560-285						
4	235	3)	34560-287						
4	295	3)	34560-289						
4	355	3)	34560-291	24560-297	24560-298	24560-299	21101-713	24561-298	21101-954
4	415	3)	34560-293						
4	475	3)	34560-295						
6	175	- /	34560-485						
6	235		34560-487						
6	275	1)	34579-038						
б	277.75	2)	34579-012						
6	295		34560-489	24560-497	24560-498	24560-499	21101-707	24561-498	21101-954
6	355		34560-491						
6	415		34560-493						
б	475		34560-495						
6	970		34560-496						
9	175		34560-785						
9	235		34560-787						
9	295		34560-789	24560-797	24560-798	24560-799	21101-709	24561-798	21101-954
9	355		34560-791						
9	415		34560-793						
fastenir side par			24560-130	24560-130	24560-130	24560-130	-	24560-130	-
guide ra PU 100			24560-155	24560-155	24560-155	24560-155	-	24560-155	-

1) CompactPCI 2) VME64x 3) Grid holes of side panel 3 + 1 U

• View of side panels 3, 4, 6, 9 U see page 6.20



SIDE PANELS TYPE F FOR TEXTILE EMC GASKET

ORDER INFORMATION

handle holes handle holes adjustable	(textile) conn	panel ection
Image: Constraint of the second se	textile gasket, core: foam, etched; incl. fi sleeve: textile for textile mater cladding with EMC gasket for co CuNi coating, UL 94 V-0 side p	ial ǩit, nnecting y two panels p of each
Height Depth		
U mm 1 piece PU 1 pair PU 1 pair PU 1 pair	PU 10 pieces PU 1 pair PU 4	pieces
3 175 34560-185		
3 235 34560-187		
3 275 1) 34579-300		
3 277.75 2) 34579-002 24564-197 24564-198 24560-199	21101-853 24564-199 2110)1-954
3 295 34560-189		
3 355 34560-191 3 415 34560-193		
3 415 34560-193 3 475 34560-195		
4 175 3) 34560-285		
4 235 3) 34560-287		
4 295 3) 34560-289		
4 355 3) 34560-291 24564-297 24564-298 24560-299	21101-858 24564-299 2110	01-954
4 415 3) 34560-293		
4 475 3) 34560-295		
6 175 34560-485		
6 235 34560-487		
6 275 1) 34579-038		
6 277.75 2) 34579-012		
6 295 34560-489 24564-497 24564-498 24560-499	21101-855 24564-499 2110	01-954
6 355 34560-491		
6 415 34560-493		
6 475 34560-495		
6 970 34560-496		
9 175 34560-785		
9 235 34560-787		1 054
9 295 34560-789 24564-797 24564-798 24560-799 9 355 34560-791 4564-798 4560-799	21101-859 24564-799 2110	01-954
9 355 34560-791 9 415 34560-793		
9 413 34300-793 Screw, M4 x 14, PU 100 pieces, for		
fastening horizontal rail to 24560-130 24560-130 24560-130 24560-130	- 24560-130	_
side panel		
Screw, M4 x 10, required if guide rails are screwed to slot 1, PU 100 pieces 24560-155 24560-155 24560-155	- 24560-155	-



SIDE PANELS TYPE H FOR STAINLESS STEEL EMC GASKET

ORDER INFORMATION

	Side panel type H fo without handle holes	r stainless steel EMC ga with handle holes	Inserted laterally into the grooves of the front panel	Rear angle	Side panel connection
06108070 06108062	clear passivated, front anodised	front handles separately see page 6.27		EMC gasekt; rear hood cannot be mounted simultaneously	(on top of each other)
Height Depth U mm	DI 1 poir	PU 1 pair	PU 10 pieces	DU 1 poir	DLL 4 pieces
U mm 3 175	PU 1 pair 24566-125	24567-125	r o ro pieces	PU 1 pair	PU 4 pieces
3 235	24566-125	24567-125			
3 275 1)	-	-			
3 277.75 2)	-	-			
3 295	24566-129	24567-129	21101-705	24561-198	21101-954
3 355	24566-131	24567-131			
3 415	-	-			
3 475	-	-			
4 175 3)					
4 235 3)					
4 295 3)					
4 355 3)	-	-	-	-	-
4 415 3)					
4 475 3)					
6 175	24566-425	24567-425			
6 235	24566-427	24567-425			
6 275 1)	-				
6 277.75 2)	-	-			
6 295	24566-429	24567-429	21101-707	24561-498	21101-954
6 355	24566-431	24567-431			
6 415	-	-			
6 475	-	-			
6 970	-	-			
9 175					
9 235					
9 295	-	-	-	-	-
9 355					
9 415					
Screw, M4 x 14, PU 100 pieces, for fastening horizontal rail to side panel	24560-130	24560-130	-	24560-130	-
Screw, M4 x 10, required if guide rails are screwed to slot 1, PU 100 pieces	24560-155	24560-155	-	24560-155	-



SIDE PANELS TYPE H FOR TEXTILE EMC GASKET

ORDER INFORMATION

	shows standard as npactPCI bus with	sembly, not rear I/O	Side panel type H without handle holes	for textile EMC gasket with handle holes	EMC gasket (textile)	Rear angle	Side panel connection
			nanule noies	nanule noies	(textile)		
			for high	or high mechanical	04502054 textile gasket,	Al extrusion,	PRASE6
		06108062 06108062	mechanical	demands, 19" bracket,	core: foam, sleeve: textile cladding with CuNi coating, UL 94 V-0	etched; for textile EMC gasket	incl. fixing material kit, for connecting two by two side panels (on top of each other)
Height	Depth						
U	mm		PU 1 pair	PU 1 pair	PU 10 pieces	PU 1 pair	PU 4 pieces
3	175		24564-145	24566-145			
3	235	1)	24564-147	24566-147			
5	275 277.75	1) 2)	-	-			
	295	۷)	24564-149	24566-149	21101-853	24564-199	21101-954
	355		24564-151	24566-151			
}	415		-	-			
}	475		-	-			
1	175	3)					
1	235	3)					
1	295	3)	_	_	_	_	_
1	355	3)					
1	415	3)					
1	475	3)					
5	175		24564-445	24566-445			
)	235	-	24564-447	24566-447			
5	275	1)	-	-			
5	277.75 295	2)	- 24564-449	- 24566-449	21101-855	24564-499	21101-954
5	355		24564-449	24566-449	21101-000	24304-499	21101-934
5	415		-	-			
,)	475		-	-			
5	970		-	-			
)	175						
)	235						
)	295		-	-	-	-	-
)	355						
9	415	<u> </u>					
Screw, M4 x 14, PU 100 pieces, for fastening horizontal rail to side panel			24560-130	24560-130	-	24560-130	-
Screw, M4 x 10, required if guide rails are screwed to slot 1, PU 100 pieces			24560-155	24560-155	-	24560-155	_



SIDE PANELS TYPE L

ORDER INFORMATION

		Side panel type L	Front cover	Collar screw with slot for assembly of front cover	Sleeves for assembly of front cover	Side panel connection
		O6197002 Al, 2 mm, passivated	for decorative finish	06708055 M6 x 16, St, nickel-plated	OUSSB036 PPE, black	BPA45867 Zn die-cast, incl. fixing
		62	of 19" bracket, Al, 2 mm, anodised			material kit, for connecting two by two side panels (on top of each other)
Height	Depth	1 1 1 1 1 1 1	1 piece	DU 100 pieses	DU 100 pieses	DLL 4 pieces
U 3	mm 175	1 piece 34561-185		PU 100 pieces	PU 100 pieces	PU 4 pieces
3	235	34561-185				
3	235 275 1)	-				
3	277.75 2)	-				
3	295	34561-189	34561-197	21100-565	21100-566	21101-954
3	355	-				
3	415	-				
3	475	-				
4	175 3)					
4	235 3)					
4	295 3)					
4	355 3)	-	-	-	-	-
4	415 3)					
4	475 3)					
6	175	34561-485				
6	235	34561-487				
6	275 1)	-				
6	277.75 2)	-				
6	295	34561-489	34561-497	21100-565	21100-566	21101-954
6	355	-				
6	415	-				
6	475	-				
6	970	-				
9	175					
9	235					
9	295	-	-	-	-	-
9	355					
9	415					
Screw, M4 x fastening ho side panel	14, PU 100 pieces, for rizontal rail to	24560-130	-	-	-	-
guide rails a PU 100 piece	10, required if re screwed to slot 1, es PCL 2) VME64x 3) Criv	24560-155	-	-	-	-



FRONT HANDLES, WALL-MOUNTING BRACKETS

ORDER INFORMATION

AI extrusion, anodised / black, width 12.2mm,				Front handle clear anodised, straight version	black anodised, straight version	clear anodised, angled version	Wall-mounting bracket
load-carrying capacity 30 kg			g				
د ب Height	Depth	4 (12.2) A = H	- E			Tasis	Al, 2.5 mm, passivated; bolted to subrack in place of the 19" bracket
U	mm	mm	mm	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	PU 1 pair
3	175	102	88.0				
3 3	235 275	102 102	88.0 88.0				
3	275	102	88.0	10501-005			
3	295	102	88.0		10501-026	10501-020	24562-197
3	355	102	88.0				
3	415	102	88.0				
3	475	102	88.0				
4	175	146	133.4				
4	235	146	133.4				
4	295	146	133.4	10501-018	-	10501-021	24562-297
4 4	355 415	146 146	133.4 133.4				
4	415	140	133.4				
4 6	175	249	235.0				
6	235	249	235.0				
6	275	249	235.0				
6	277.75	249	235.0				
б	295	249	235.0	10501-008	10501-029	10501-022	24562-497
6	355	249	235.0				
6	415	249	235.0				
6	475	249	235.0				
6	970	249	235.0				
9	175	249	235.0				
9 9	235 295	249	235.0	10501 000	10501 000	10501 000	24562 707
9	295 355	249 249	235.0 235.0	10501-00	10501-029	10501-022	24562-797
9	355 415	249	235.0				
	415 M5 x 12, PU			24560-183	24560-183	24560-183	-
	M5 x 12, PU			24560-18:	24560-182	24560-182	-
	M4 x 14, PU			-	-		24560-130
				1	livenzie evolueivelu mede in etende		

1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ);

please order at least the SPQ quantity or a multiple



HORIZONTAL RAILS



light

06197007

heavy

06197008

rugged

- Aluminium profile, surface anodised, conductive contact surfaces for EMC gaskets
- The horizontal rail is marked with sequential numbering (for sizes > 28 HP) to facilitate positioning of the guide rails
- Horizontal rails are fixed to the side panel using M4 bolts with torx 20 drive
- There are 3 different horizontal rails for different loading levels
 light, for up to 7.5 kg
 - heavy, for 7.5 kg to 15 kg
 - rugged, for 15 kg to approx. 25kg

MOUNTING POSITION OF THE HORIZONTAL RAILS PCB as deep as side panel Cabling space behind backplane Rear I/O installation (CompactPCI, VME64x applications) front front rear front rear rear H-KD H-KD **DI** 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 п L-KD L-ST/L-VT/L-MZ H-ST/H-VT/H-MZ L-KD H-KD L-ST/L-VT/L-MZ H-ST/H-VT/H-M2 L-KD H-KD H-ST / H-VT H-KD 3 U H-LD H-LD ា កោ D2 D2 D2 D3 D = D1 D1 D1 D 06112081 06112083 0611208 160, 220, 280 mm, 160, 220, 280 mm, 160 mm/80 mm 0 L-KD H-KD L-KD H-KD 0000000 0 0 0 0 0 0 0 L-ST/L-VT/L-MZ H-ST/H-VT/H-MZ L-ST/L-VT/L-MZ H-ST/H-VT/H-MZ ST/VT/MZ ST / VT / MZ 6 U = 3 U + 3 U 0 0 L-KD H-KD L-KD L-OD L-KD L-OD ၜၟၜၟၜၟၜၟၜၟၜၟၜၟၜၟၜၟၜၟၜၟၜၟ ೲೢೲೢೲೢೲೢೲೢೲೢೲೲ ୄୖୖୖୖୖୄୄୄ୶ୖୄୖୖୖୖୄୄ୶ୖୄୖୄ AB ٨F L-ST/L-VT/L-MZ H-ST/H-VT/H-MZ L-ST/L-VT/L-MZ H-ST/H-VT/H-MZ L-KD H-KD L-KD H-KD D2 D2 D = D1 D1 D 06112088 06112087 160, 220, 280 mm, 160, 220, 280 mm, 0 **21_1** 0 0 0 0 0 0 0 [H-LD H-LD 0 0 0 0 0 0 0 0 0 0 0 0 0 0 п H-ST / H-VT L-ST/L-VT/L-MZ H-ST/H-VT/H-MZ L-ST/L-VT/L-MZ H-ST/H-VT/H-MZ ST / VT / MZ ST/VT/MZ L-KD H-KD L-KD H-KD ° L-KD H-KD ୖୄ୶ୄୖ୶ୄୖ୶ୖୄ୶ୖୄ୶ୖୄ୶ୖ୶ 6 U L-ST/L-VT/L-MZ H-ST/H-VT/H-MZ L-ST/L-VT/L-MZ H-ST/H-VT/H-MZ H-ST / H-VT H-LD H-LD 4 O **L C** D3 D2 D2 D2 D1 D = D1 D1 D

D

160, 220, 280 mm,

06112084

160, 220, 280 mm,

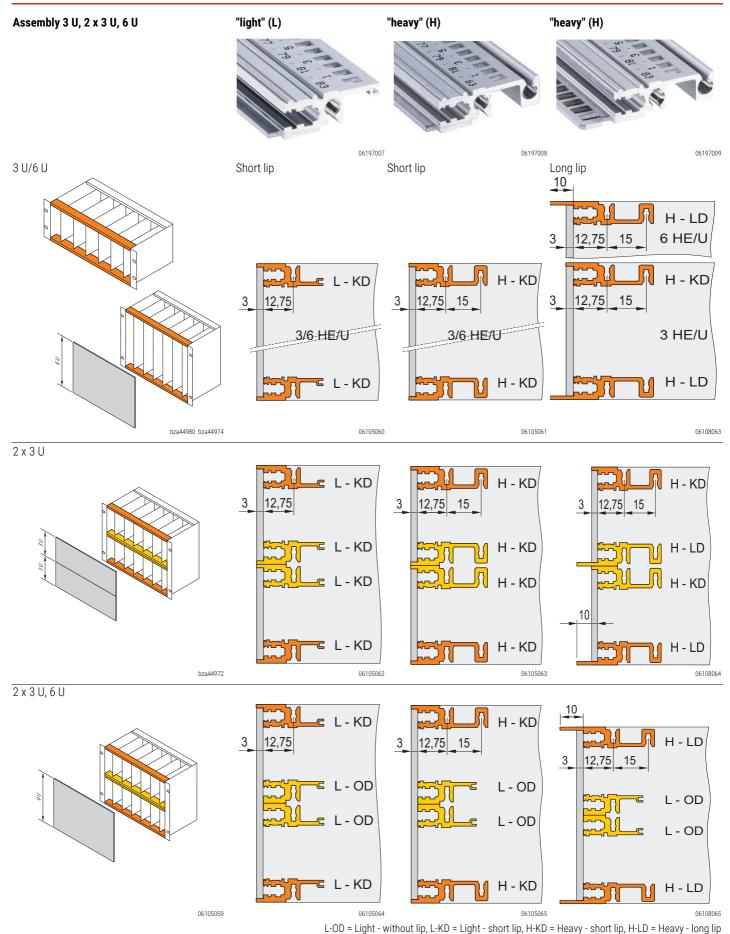
06112082

0

160 mm/80 mm



FRONT HORIZONTAL RAILS



Part number in bold face type: ready for despatch within 2 working days Part number in normal type: ready for despatch within 10 working days



FRONT HORIZONTAL RAILS

ORDER INFORMATION

		"light" Type L-OD without lip	"light" Type L-KD short lip	"heavy" Type H-KD short lip	With long lip for insertion/ extraction of CompactPCI and VME64x boards "heavy" Type H-LD long lip
				AND P AS	
	bza449	80 06197006	06197007	7 06197008	06197009
With HP markings fr Al extrusion, anodisc conductive contact	ed finish,	Al extrusion, anodised finish, conductive contact surface, with printed HP markings	Al extrusion, anodised finish, conductive contact surface, with printed HP markings	Al extrusion, anodised finish, conductive contact surface, with printed HP markings	Al extrusion, anodised finish, conductive contact surface, with printed HP markings
		without lip: 2 x 3 U installation and continuous 6 U front panel	short lip: horizontal rail and front panel form a single plane	short lip: horizontal rail and front panel form a single plane	long lip: for insertion/extraction of CompactPCI or VME64x boards
Usable length	Length	1 piece (SPQ 10) ¹⁾			
HP	mm				
20	106.68	34560-020	34560-120	34560-220	34560-320
28	147.32	34560-028	34560-128	34560-228	34560-328
40	208.28	34560-040	34560-140	34560-240	34560-340
42	218.44	34560-042	34560-142	34560-242	34560-342
63	325.12	34560-063	34560-163	34560-263	34560-363
84	431.80	34560-084	34560-184	34560-284	34560-384
-	1000	34560-001	34560-101	34560-201	34560-301
Screw, M4 x 14, PU		24560-130	24560-130	24560-130	24560-130
Screw, M4 x 10, required are screw PU 100 pieces		-	-	24560-155	24560-155
		6.35	6.35		

1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple "light": loading capacity up to approx. 7.5 kg; "heavy": loading capacity > 7.5 kg

- 1000 mm version without M4 thread to front, without printed markings and without notch for 19"-bracket
- Rugged horizontal rails with 3 fixing holes • see section "Rugged Subracks", page 6.99



REAR HORIZONTAL RAILS

Indirect backplane mounting (with insulation strip)



Direct backplane mounting

04400001

Connector fitting with Z

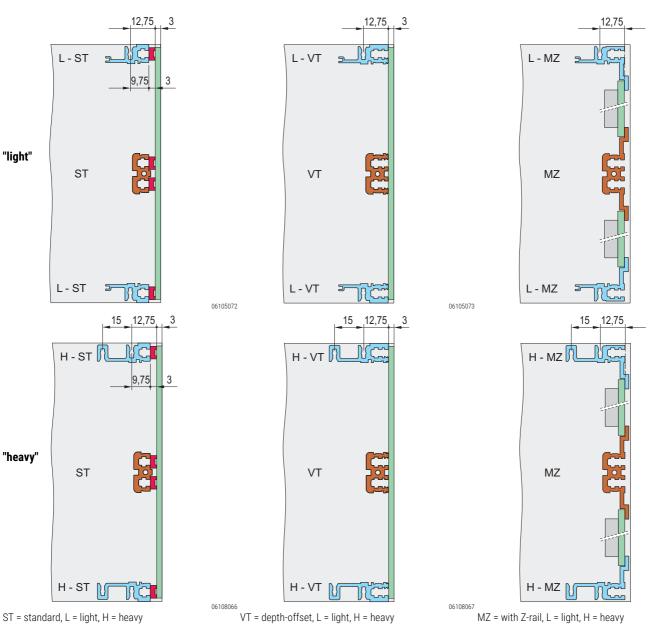
04400002



0440

06105071

06108068



Part number in bold face type: ready for despatch within 2 working days Part number in normal type: ready for despatch within 10 working days



REAR HORIZONTAL RAILS, TOP AND BOTTOM

ORDER INFORMATION

	For indirect backplane mounting with insulation strip		For direct backplane mounting		For direct fixing of connectors in accordance with EN 60603-2 (DIN 41612)		
			0440001		9440002		a de carteria a de carteria Aduccos
		"light"	"heavy"	"light"	"heavy"	"light"	"heavy"
		Type L-ST	Type H-ST	Type L-VT	Type H-VT	Type L-MZ	Type H-MZ
	*	standard	standard	+ 3 mm	+ 3 mm	with Z-rail	with Z-rail
	06105074	6197010	6197011	06197011	06197013	06197014	06197015
With HP markings fro extrusion, anodised fi conductive surface		Al extrusion, anodised surface, conductive contact surface, with printed HP markings					
Usable length HP	Length mm	1 piece (SPQ 10) ¹⁾					
20	106.68	34560-420	34560-520	34560-620	34560-720	34560-820	34560-920
28	147.32	34560-428	34560-528	34560-628	34560-728	34560-828	34560-928
40	208.28	34560-440	34560-520	34560-640	34560-720	34560-840	34560-920
42	218.44	34560-442	34560-542	34560-642	34560-742	34560-842	34560-942
63	325.12	34560-463	34560-563	34560-663	34560-763	34560-863	34560-963
84	431.80	34560-484	34560-584	34560-684	34560-784	34560-884	34560-984
-	1000	34560-401	34560-501	34560-601	34560-701	34560-801	-
Screw, M4 x 14, PL							
fastening horizonta side panel		24560-130	24560-130	24560-130	24560-130	24560-130	24560-130
Screw, M4 x 10, red guide rails are scre PU 100 pieces	ewed to slot 1,	_	24560-155	_	24560-155	_	24560-155
Perforated rail for o mounting with insu see page	ulation strip	6.36	6.36	-	-	-	-
Z-rail for connector without insulation	strip see page	6.36	6.36	-	-	-	-
Insulation strips se		6.35	6.35	-	-	-	-
Threaded inserts s	ee page	6.35	6.35	6.35	6.35	6.35	6.35

1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple "light": loading capacity up to approx. 7.5 kg; "heavy": loading capacity > 7.5 kg

- 1000 mm version without M4 thread to front, .
- without printed markings and without notch for 19"-bracket • Rugged horizontal rails with 3 fixing holes
- see section "Rugged Subracks", page 6.99



REAR HORIZONTAL RAILS, CENTRE, FOR 6 U

ORDER INFORMATION

		For indirect backplane mounting with insulation strip	For direct backplane mounting	For direct fixing of connectors in accordance with EN 60603-2 (DIN 41612)
		0440001	0440002	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		Typ ST	Typ VT	Typ MZ
		OGI37016 Al extrusion, anodised surface, conductive contact surface, without printed markings	Al extrusion, anodised surface, conductive contact surface, without printed markings	Al extrusion, anodised surface, conductive contact surface, without printed markings
Usable length	Length	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾
HP	mm			
20		34561-020	34561-120	34561-220
28	-	34561-028	34561-128	34561-228
40		34561-040	34561-140	34561-240
42		34561-042	34561-142	34561-242
63		34561-063	34561-163	34561-263
84		34561-084	34561-184	34561-284
Careyy MAy 14 DU		34561-001	34561-101	34561-201
Screw, M4 x 14, PU 1 fastening horizontal side panel		24560-130	24560-130	24560-130
Insulation strips see	nage	6.35	-	-
insulation strips see				

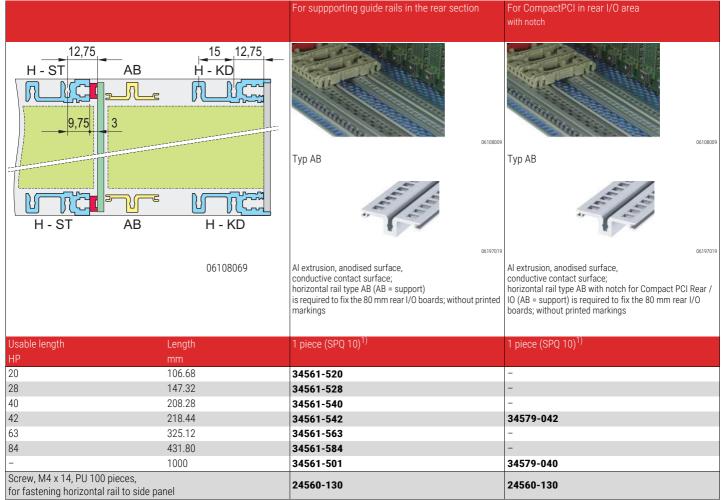
1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple "light": loading capacity up to approx. 7.5 kg; "heavy": loading capacity > 7.5 kg

- · All horizontal rails without printed markings
- 1000 mm version without M4 thread to front



SCHROFF

ORDER INFORMATION



1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ);

please order at least the SPQ quantity or a multiple

"light": loading capacity up to approx. 7.5 kg; "heavy": loading capacity > 7.5 kg

- All horizontal rails without printed markings
- 1000 mm version without M4 thread to front



THREADED INSERTS, PERFORATED STRIPS, INSULATION STRIPS

ORDER INFORMATION

		Threaded insert F		Perforated st	rip	Insulation strip	Insulation strip	
		M2.5	M3		(item 1)	i li i i		
		the front panel to the feedback of the screw 12.3 mm	horizontal rail;		elded plug-in units, Al, 1 mm, ub screw (torque: 0,37Nm)			
Usable length	Threaded insert Length			Perforated str Length	ip	Insulation strip Length		
HP	mm	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	mm	1 piece (SPQ 10) ¹⁾	mm	PU 10 pieces	
20	106.18	34561-320	-	106.48	30845-189	101.50	24560-820	
28	146.82	34561-328	-	147.12	30845-197	144.20	24560-828	
40	207.78	34561-340	-	208.08	30845-209	205.12	24560-840	
42	217.94	34561-342	-	218.24	30845-211	210.40	24560-842	
63	324.62	34561-363	-	324.92	30845-232	316.88	24560-863	
84	431.30	34561-384	34561-484	431.60	30845-253	428.64	24560-884	
196	1000.26	34565-196	-	1000.56	34565-396		-	
Accessories	1			1		L		
Grub screw M2.5	5 x 8,PU 100 pieces	21100-276	-		-		-	
Grub screw M2.5 PU 100 pieces	5 x 9, Torx 8	-	-		21102-980		-	
Grub screw M3 x	8,PU 100 pieces	-	21100-646		-		-	

1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ);

please order at least the SPQ quantity or a multiple

2) Part no. includes one packing unit (PU); delivery is exclusively made in PU



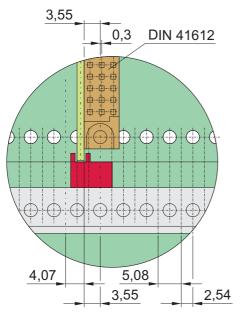
Z-RAILS, PERFORATED RAILS

ORDER INFORMATION

		Z-rail for connectors DIN EN 60603-2, DIN 41612 item 1	31-pin, DIN 41617	Perforated rail EN 606032, DIN 41612 item 1
			3274/5849	EZA45850 EZA45848
			06708063	
		for connector mounting on ST horizontal rails, please order threaded inserts and screw separately	for connector mounting on ST horizontal rails, please order threaded inserts and screw separately	for connector mounting on VT horizontal rails, please order threaded inserts and screw separately
Usable length	Length			
HP	mm	1 piece	1 piece	PU 4 pieces
4	20.32	30822-166	-	20822-052
8	40.64	30822-170	-	20822-053
20	101.60	30822-025	-	20822-051
28	142.24	30822-033	-	20822-049
40	203.20	30822-045	30819-763	20822-046
42	213.36	30822-047	-	20822-050
60	304.80	30822-065	30819-783	20822-047
84	426.72	30822-089	30819-808	20822-048
Item 2, torx panhead so to fix connector to perf PU 100 pieces	forated rail,, M2.5 × 7,	24560-147	24560-147	24560-147
Item3, torx panhead so to fix perforated rails to PU 100 pieces	erew, o horizontal rail, M2.5 × 10,	-	-	24560-148



GUIDE RAILS



Front view: position of guide rails to connector (EN 60603-2/ DIN 41612)





Guide rails form the interface between the subrack mechanics and the sub-assemblies (PCBs, plug-in units, frame-type plug-in units, ...).

Guide rails for standard applications are 2 HP wide. Guide rails with coding (e.g. for CompactPCI or VME64bus applications) are 4 HP wide.

There are groove widths of 2 mm and 2.5 mm.

The guide rails are clipped into the rectangular cut-outs of the horizontal rails. They can additionally be bolted to the horizontal rail (type H only) for higher shock and vibration requirements.

The printed HP markings on the horizontal rail (28 HP and above) allow the rails to be fitted in the correct position easily (position of sub-assembly = "number in viewing window" or in front of the arrow marking on the guide rails).

Applications for guide rails

For plug-in units and frame-type plug-in units (with front panels) (standard type)

For plug-in units and frame type plug-in units or for PCBs without their own front panel (accessory type or robust version)

For CompactPCI or VME64x plug-in units (type IEEE with coding; frame-type plug-in units cannot be fitted)

For plug-in drive unit modules or PCBs in 4.4" (111.7 mm) height (type 4.4")

Rugged guide rails to accommodate conduction cooled assembly (CCA) adaptor



- Accessories:
- ESD clip
- Keying/coding pegs
- Board locking



GUIDE RAILS FOR PLUG-IN UNITS AND MODULES, ONE-PIECE, GROOVE WIDTH 2 MM AND 2.5 MM

ORDER INFORMATION

			For plug-in units and frame type plug-in un Type: Standard	its	Type Standard , with DIN connector fixing
Assembly - can be clippy horizontal ra - can be clipp 1.5 mm thick Storage temp from -40 °C	ed into plates perature	ruded			
Colors of Pla red: RAL 300 grey: RAL 70	00		up to 220 mm length, PC, UL 94 V-0; from 280 mm length, multi-piece, end piece PC, UL 94 V-0, central section Al extrusion	PC, UL 94 V-0	PBT, UL 94 V-0, red, connector is clipped directly onto the guide rails; for euroboards only, 100 x 160 mm or 100 x 220 mm
Board lengt	h Groove width	e Colour			
mm	mm	mm	PU 10 pieces ²⁾	1 piece (SPQ 50) ¹⁾	1 pair (SPQ 10) ¹⁾
70	2	red	-	34568-230	-
70	2	grey	-	-	-
160	2	red	24568-361	64568-001	64560-074
220	2	red	24568-362	64568-002	64560-075
280	2	red / silver	24568-379	-	-
340	2	red /silver	24568-380	-	-
160	2.5	red	-	64568-096	-
220	2.5	red	-	64568-098	-

Accessories

Retention screw, PU 100 pieces; Torque max. 0.2 Nm	24560-141	24560-141	24560-141
ESD clip, PU 50 pieces	24560-255	24560-255	24560-255

1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

2) Part no. includes one packing unit (PU); delivery is exclusively made in PU

Description of accessories see from page 6.43



GUIDE RAILS TYPE "ACCESSORY", ONE-PIECE, GROOVE WIDTH 2 MM AND 2.5 MM

ORDER INFORMATION

			Guide railsType Access	ory			
					Type " Accessory " with DIN connector mounting	Type Accessory , strengthened	for heavy modules, Al extrusion, silver, robust version
extruded horizontal - can be clip mm thick Storage ten from -40 °C	pped into 1.5 plates	al	up to 280 mm length, PC, U	Тарана 194 у-0:	PBT, UL 94 V-0, connector is	PC. UL 94 V-0. red:	Al extrusion:
red: RAL 3 grey: RAL	3000	_		ce, end piece PC, UL 94 V-0,	bolted directly onto the guide rails, only suitable for euroboards 100 x 160 mm or 100 x 220 mm	PC, DL 94 V-0, red, support beam of guide rails adds to strengthening	Al extrusion; is screwed to horizontal rail "heavy" with retention screws
Board length	Groove width	Colour					
mm	mm		PU 10 pieces ²⁾	1 piece (SPQ 50)	PU 10 pairs ²⁾	1 piece (SPQ 50)	1 piece (SPQ 10) ¹⁾
100	2	red	-	64568-082	-	-	-
160	2	red	24568-363	64568-005	24560-274	64568-076	-
160	2	grey/silver	-	64568-055	24560-276	-	34562-881
220	2	red	24568-364	64568-006	24560-275	64568-078	-
220	2	grey/silver	-	64568-166	24560-277	-	34562-882
280	2	red/silver	24568-381	-	-	64568-080	34562-883
340	2	red/silver	24568-382	-	-	-	34562-884
400	2	red/silver	-	-	-	-	34562-885
160	2.5	red/silver	-	64568-100	-	64568-118	34564-881
220	2.5	red/silver	-	64568-102	-	64568-119	34564-882
280	2.5	red/silver	-	-	-	64568-120	34564-883
340	2.5	silver	-	-	-	-	34564-884
400	2.5	silver	-	-	-	-	34564-885

Accessories

Retention screw, PU 100 pieces; torque max. 0.2 Nm	24560-141	24560-141	24560-141	24560-141	24560-157
ESD clip, PU 50 pieces	24560-255	24560-255	24560-255	24560-255	-
Board locking C, red, PU 10 pieces	24560-377	24560-377	24560-377	24560-377	-
Board handle C, red, PU 10 pieces	24560-378	24560-378	24560-378	24560-378	-
Identification strips for board handle, red, PU 1 sheet = 438 pieces	60817-228	60817-228	60817-228	60817-228	-
Coding see page		6.43			-

1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

2) Part no. includes one packing unit (PU); delivery is exclusively made in PU

Description of accessories see from page 6.43



GUIDE RAILS FOR COMPACTPCI, VME64X WITH CODING, 4.4" PCBS, GROOVE WIDTH 2 MM AND 2.5 MM

ORDER INFORMATION

			Type with Coding , for VME64x application. I IEEE 1101.10 and IEC	n accordance with	Type with Coding , 0.1" OFFSET for power supply units. Iin accordance with IEEE 1101.10 and IEC 60297-3-103		Type. 4.4 " PCBs		
Assembly - can be clipped extruded horizontal rails - can be clipped into1.5 mm thic Storage temper from -40 °C 1	k plates r ature					Ţ		614009	
Colors of Plast red: RAL 3000 grey: RAL 7016 green: RAL 602	;		One-piece for groove width 2 mm, PC, UL 94 V-0; multi-piece at groove width 2,5 mm, end-piece PC, UL 94 V- 0, center piece Al profile	PC, UL 94 V-0	PC, UL 94 V-0, for installation of power supplies in CompactPCI systems or plug-in units with SMD placement		for installation of power supplies in CompactPCI systems or		
Board length	Groove width	Colour	PU 10 pieces	1 piece (SPQ 50) ¹⁾	PU 10 pieces	1 piece (SPQ 50) ¹⁾	PU 10 pieces	1 piece (SPQ 50) ¹⁾	
mm	mm	mm							
70	2	red	24568-357	64568-085	-	_	_	_	
70	2	grey	24568-360	64568-086	-	-	-	-	
160	2	red	24568-356	64568-089	-	-	24560-361	64560-143	
160	2	grey	24568-358	64568-090	-	-	-	-	
160	2	green		-	24568-359	64568-071	-	-	
220	2	red	-	64568-091	-	-	24560-362	64560-144	
220	2	grey	-	64568-092	-	-	-	-	
220	2	green	-	-	-	64568-072	-	-	
160	2.5	red	-	64568-109	-	-	-	64560-145	
160	2.5	grey	-	64568-110	-	-	-	-	
220	2.5	red	-	64568-111	-	-	-	64560-146	
220	2.5	grey	-	64568-112	-	-	-	-	
280	2.5	red / silver	24568-331	-	-	-	-	-	
280	2.5	grey / silver	24568-341	-	-	-	-	-	
340	2.5	red / silver	24568-332	-	-	-	-	-	
340	2.5	grey / silver	24568-342	-	-	-	-	-	

Accessories

ESD clip, PU 50 pieces	24560-255	24560-255	-	-	-	-
ESD clips, for alignment pin, PU 50 pieces	24560-256	24560-256	24560-256	24560-256	-	_
Retention screw, PU 100 pieces; torque max. 0.2 Nm	24560-141	24560-141	24560-141	24560-141	24560-158	24560-158
Coding peg, PU 100 pieces	20817-501	20817-501	20817-501	20817-501	-	_

1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

2) Part no. includes one packing unit (PU); delivery is exclusively made in PU

Description of accessories see from page 6.43



GUIDE RAILS, MULTI-PIECE, GROOVE WIDTH 2 MM

ORDER INFORMATION

		standard type	Accessories type			For 4.4" PCBs		
		otunidara type						
PCBs:				all and	11-11-11-11-11-11-11-11-11-11-11-11-11-	-15 - 10 -		12
Fixed lengths for 160, 22	20, 280,			12-15-				
340 mm;				11/11		11/11		11 11
length 1000 mm for spec	cial dimen-							
sions			2/4					
Mounting: pluggable into	o horizon-			the fait		2	and and	
tal rails			0610600		0610600		0610600	
Storage temperature :			end piece, PC, UL 94 V-0,middle	end piece, PBT, UL 94 V-0,	end piece, PC, UL 94 V-0,middle	end piece, PBT, UL 94 V-0,	end piece, PC, UL 94 V-0,middle	end piece, PBT, UL 94 V-0,
End piece -40°C +130°	°C		sectionAl extrusion	middle section	sectionAl extrusion	middle section	sectionAl extrusion	middle section
PVC profile 0°C +60°C				plastic extrusion (PVC, RAL 7035)		plastic extrusion (PVC, RAL 7035)		plastic extrusion (PVC, RAL 7035)
Description	Length	Groove	1	(1	(1	(,
	mm	width	1 piece (SPQ 10) ¹⁾	1 piece	1 piece (SPQ 10) ¹⁾	1 piece	1 piece (SPQ 10) ¹⁾	1 piece
		mm		(SPQ 10) ¹⁾		(SPQ 10) ¹⁾		(SPQ 10) ¹⁾
End piece, red, 1 pair		2	64560-004	64560-004	64560-008	64560-008	64560-057	64560-057
extrusion, for 160	95	2	34560-891	34564-891	34560-891	34564-891	34560-891	34564-891
mmboard lengthAl extrusion, for 220 mm								
board lengthAl	155	2	34560-892	34564-892	34560-892	34564-892	34560-892	34564-892
extrusion, for 280 mm	01E	0	24562 002	24564 000	24562 002	24564 000	24562 000	24564 000
board lengthAl	215	2	34560-893	34564-893	34560-893	34564-893	34560-893	34564-893
extrusion, for 340 mm	275	2	34560-894	-	34560-894	-	34560-894	_
board length								
extrusion,for any	1000	2	24560.000		24560.000		24560.000	
board lengthPlastic	1000	Ζ	34560-900	34564-900	34560-900	34564-900	34560-900	34564-900
Description	Length	Groove						
	mm	width	1 piece	1 piece	1 piece	1 piece		
Fadaises and 1 asia		mm	(SPQ 10) ¹⁾	(SPQ 10) ¹⁾	(SPQ 10) ¹⁾	(SPQ 10) ¹⁾		
End piece, red, 1 pair extrusion, for 160		2.5	64560-014		64560-018			
mmboard lengthAl	95	2.5	34562-813	-	34562-813	-		
extrusion, for 220 mm	155	0.5			0.1540.014			
board lengthAl	155	2.5	34562-814	-	34562-814	-		
extrusion, for 280 mm	215	2.5	34562-815	-	34562-815	-		
board lengthAl extrusion, for 340 mm								
board length	275	2.5	34562-816	-	34562-816	-		
extrusion, for any	1000	2.5	34562-822	-	34562-822	-		
board lengthPlastic								
Accessories			04540 655	04560 055	04560 055	04540 055	1	
ESD clip, PU 50 pieces Retention screw, PU 100	nieces		24560-255	24560-255	24560-255	24560-255	_	-
torque max. 0.2 Nm	pieces,		24560-141	24560-141	24560-141	24560-141	24560-158	24560-158
Board locking C, red, PU	10 pieces		-	-	24560-377	24560-377	-	-
Board handle C, red, PU			-	-	24560-378	24560-378	-	-
Identification strips for b		le, red,	_	_	60817-228	60817-228	_	_
PU 1 sheet = 438 pieces								
Coding see page		1 . 1 1	-	-	See page		-	-

1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ);

please order at least the SPQ quantity or a multiple

2) Part no. includes one packing unit (PU); delivery is exclusively made in PU

Description of accessories see from page 6.43

Part number in bold face type: ready for despatch within 2 working days Part number in normal type: ready for despatch within 10 working days

.



GUIDE RAILS, MULTI-PIECE, GROOVE WIDTH 2 MM

ORDER INFORMATION

			Coding (IEEE) type					
				red		grey	greei	n, 0,1" Offset
PCBs: Fixed lengths for 160, 22 340 mm; length 1000 mm for spe Mounting: pluggable int	cial dimen						-	
Storage temperature : End piece -40°C+130° PVC profile 0°C +60°C red = similar RAL 30 grey = similar RAL 70	C DOO, D16,		end piece, PC, UL 94 V-0,middle sectionAl extrusion	end piece, PBT, UL 94 V-0, middle section plastic extrusion	end piece, PC, UL 94 V-0,middle sectionAl extrusion	end piece, PBT, UL 94 V-0, middle section plastic extrusion	end piece, PC, UL 94 V-0,middle sectionAl extrusion	end piece, PBT, UL 94 V-0, middle section plastic extrusion
green = similar RAL 60	024	Groove	A	(PVC, RAL 7035)		(PVC, RAL 7035)		(PVC, RAL 7035)
	mm	width	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾
End piece, 1 pair		2	64568-093	64568-093	64568-094	64568-094	64568-095	64568-095
extrusion, for 160 mmboard lengthAl	95	2	34560-891	34564-891	34560-891	34564-891	34560-891	34564-891
extrusion, for 220 mm board lengthAl	155	2	34560-892	34564-892	34560-892	34564-892	34560-892	34564-892
extrusion, for 280 mm board lengthAl	215	2	34560-893	34564-893	34560-893	34564-893	34560-893	34564-893
extrusion, for 340 mm board length	275	2	34560-894	_	34560-894	-	34560-894	_
extrusion,for any board lengthPlastic	1000	2	34560-900	34564-900	34560-900	34564-900	34560-900	34564-900
Description	Length mm	Groove width mm	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾
End piece, 1 pair		2.5	64568-093		64568-094		64568-095	
extrusion, for 160 mmboard lengthAl	95	2.5	34562-813	-	34562-813	-	34562-813	-
extrusion, for 220 mm board lengthAl	155	2.5	34562-814	-	34562-814	-	34562-814	-
extrusion, for 280 mm board lengthAl	215	2.5	34562-815	-	34562-815	-	34562-815	-
extrusion, for 340 mm board length	275	2.5	34562-816	-	34562-816	-	34562-816	-
extrusion,for any board lengthPlastic	1000	2.5	34562-822	-	34562-822	-	34562-822	-
Accessories								1
ESD clip, PU 50 pieces			24560-255	24560-255	24560-255	24560-255	24560-255	24560-255
ESD clips, for alignment		pieces	24560-256	24560-256	24560-256	24560-256	24560-256	24560-256
Retention screw, PU 100 torque max. 0.2 Nm	pieces;		24560-141 20817-501	24560-141 20817-501	24560-141	24560-141	24560-141 20817-501	24560-141 20817-501
Coding peg			20017-301	20017-301	20817-501	20817-501	20017-301	20017-301

1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ)

please order at least the SPQ quantity or a multiple

2) Part no. includes one packing unit (PU); delivery is exclusively made in PU

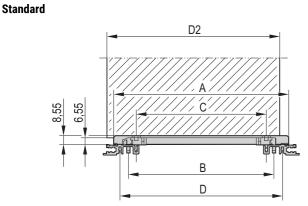
NOTE

• (*) only for groove width 2.0mm

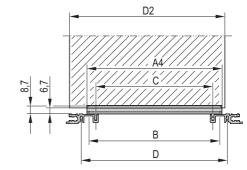
• Headpieces with coding can be used for be used for groove width 2.0mm as well as for 2.5mm



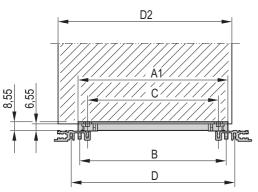
DIMENSION DRAWINGS OF GUIDE RAILS



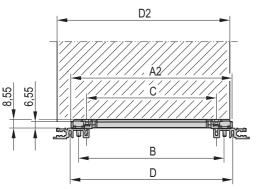
Robust version



For accessories



CompactPCI, VME64x

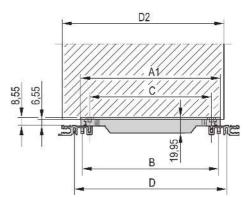


For accessories, strengthened

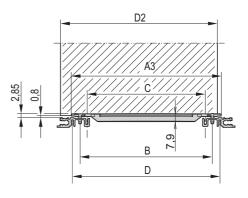
bza45808

bza45808

06105068



4.4" (111.7 mm)



06105069

06105074

Dimensions tab	le								
Board length					Dimensions				
L	А	A1	A2	A3	A4	В	С	D	
mm	mm	mm	mm	mm	mm	mm	mm	mm	
70	71.5	47.9	59.39	63	49	45	30	60	
100	101.5	77.9	89.39	93	79	75	60	90	
160	161.5	137.9	149.39	153	139	135	120	150	
220	221.5	197.9	209.39	213	199	195	180	210	
280	281.5	257.9	269.39	273	259	255	240	270	
340	341.5	317.9	322.39	333	319	315	300	330	
400	401.5	377.9	389.39	393	379	375	360	390	

A, A1, A2, A3, A4: Length of rail

B: Pitch of snap-in fixing

C: Pitch of guide rail retention screws

D: Pitch of horizontal rail retention screws



GUIDE RAIL ACCESSORIES

ORDER INFORMATION

		ESD clips, CompactPCI/VME 64	Coding for subracks		
			Keying/coding block fo guide rails accessory t red, RAL 3000,		Keying/coding for CompactPCI, VME64x handles to IEEE 1011.10 and IEC 60297-3-103
					04612052
		Spring steel, tin-plated, ESD clip, for alignment pin in accordance with IEEE; can be plugged into the guide rails with coding and into the keying/coding block; provides conductive contact between the alignment pin of the insertion/extractor handle (IEL or IET handle) and the horizontal rail	PC, UL 94 V-0, keying/coding block is clip horizontal rail next to the please order keying/codin	guide rail;	Keying/coding peg, PC, UL 94 V-0, RAL 7035The keying/coding pegs prevent plug-in units to be mounted in wrong slots. They are inserted in the chambers of the codable card guides as well as in the insertion/extractor handles IEL or IET (4 possible positions), resulting in 64 codings per card guide; when coding the upper and lower card guide, 4096 codings will result;
Assembly	Colour		1 piece (SPQ 50)		
		PU 50 pieces	red, RAL 3000,	grey, RAL 7016	PU 100 pieces
	red	-	64568-232		-
above	grey	-		64568-233	20817-501
	silver		-		-
balaw	red		64568-234	64568-235	-
below	grey	-		04308-235	20817-501
	silver	24560-256	-		-

1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

2) Part no. includes one packing unit (PU); delivery is exclusively made in PU

GUIDE RAIL ACCESSORIES

	ESD clips for guide rails	Board locking C for PCBs without front panel; for accessory type guide rails	PCB handle C for board locking; for accessory type guide rails	Identification strips
	Other Spring steel, tin-plated, provides conductive contact between board and horizontal rail, on both the solder side and the component side	PBT, UL 94 V-0, red, to fix the PCB in the subrack (also slot 1), can also be used without board handle, minimum distance 3 HP	PBT, UL 94 V-0, red, insertion/extraction function with connection to board locking (also slot 1), mounting directly behind front panel (above and below), minimum distance 3 HP	06108076 Polyester film, 31 x 4 mm, self-adhesive, white/matt (1 A4 sheet contains 438 pieces)
Assembly Colou	ır silver	red	red	white/matt
mm	PU 50 pieces	PU 10 pieces	PU 10 pieces	1 piece
above/below	24560-255	24560-377	24560-378	60817-228



SHIELDING FOR TOP AND BOTTOM

Cover plates can be used for electromagnetic shielding (with EMC contact springs) or as mechanical protection (without EMC springs)

Cover plates for mechanical protection

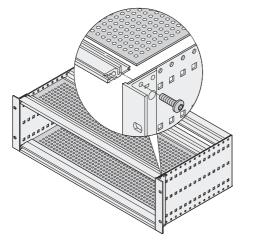
• Cover plates are inserted into the grooves of the front and rear horizontal rails, type L "light"

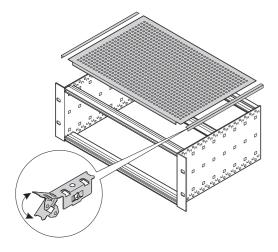
see page 6.45

0610807

06102084

0610508





Cover plates with EMC shielding and mechanical protection

EMC cover plates for top and bottom

- Inserted in the groove of the front and rear horizontal rails; shielding with contact springs, lateral contact by bolting the bracket to the side panel
- Used when standard-depth PCBs (160, 220, 280, ...) are fitted

see page 6.46

Universal EMC cover plates for top and bottom

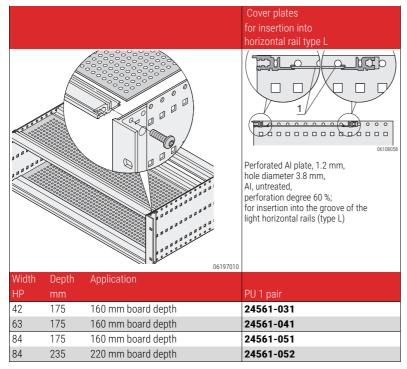
- Inserted in the groove of the front and rear horizontal rails; shielding with contact springs, lateral contact by bolting to the side panel with special contact springs
- Used when PCBs with special dimensions are fitted

see page 6.47

nvent schroff

COVER PLATES FOR MECHANICAL PROTECTION (INSERTION INTO HORIZONTAL RAIL TYPE L)

ORDER INFORMATION



NOTE

· Other dimensions on request



EMC COVER PLATES AND MECHANICAL PROTECTION

- Cover plate for bolting to side panel
- Used when standard-depth PCBs (160, 220, 280, ...) are fitted

ORDER INFORMATION

			Cover plate for bolting to side panel	Stainless steel EM0 plate and horizonta	C gasket, between cover I rail
			d = D - 25 3 HE / U 160 / 220 / 280 Al, 1.0 mm, hole diameter 4.0 mm, passivated, perforation degree 58 %, incl. fixing screws; for shielding 4 stainless steel EMC gaskets are required per subrack	stainless steel EMC gr clips into the horizont forms the contact witl suitable for all horizon	al rail and h the cover plate;
Width	Depth	Application			
HP 42	175	160 mm ha and death	PU 1 pair	PU 10 pieces	PU 100 pieces
	175	160 mm board depth	24560-064		
42 42	235 275	160, 220 mm board depth 160, 220 mm board depth CompactPCI (275 mm)	24560-065	04540.041	
42	275	160, 220 mm board depth VME64x (277.75 mm)	24560-061 24579-090	24560-241	-
42	277.75	160, 220 mm board depth VME64X (277.75 mm)	24579-090 24560-066		
42 63	175	160 mm board depth			
63	235	160, 220 mm board depth	24560-071 24560-072		
63	235	160, 220 mm board depth 160, 220 mm board depth CompactPCI (275 mm)	24560-062	24560-243	-
63	275	160, 220, 280 mm board depth compactPer (273 mm)	24560-062		
84	175	160 mm board depth	24560-078		
84	235	160, 220 mm board depth	24560-079		
84	275	160, 220 mm board depth CompactPCI (275 mm)	24560-063		
84	277.75	160, 220 mm board depth VME64x (277.75 mm)	24579-092		
84	295	160, 220, 280 mm board depth	24560-080	24560-245	24560-246
84	355	160, 220, 280 mm board depth	24560-081		
84	415	160, 220, 280 mm board depth	24560-082		
84	475	160, 220, 280 mm board depth	24560-083		
Assem	bly tool, fo	r EMC gasket, orizontal rails), 1 piece	-	24560-271	

NOTE

· Cover plates without perforation available on request



UNIVERSAL EMC COVER PLATES AND MECHANICAL PROTECTION

• Used when PCBs with special dimensions are fitted

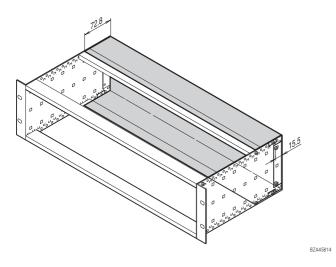
			Universal cover plate Stainless steel EMC gasket, between complate and horizontal rail		
		COLOR	d = D - 25 3 HE / U 160 / 220 / 280 Al, 1.0 mm, hole diameter 4.0 mm,passivated, perforation degree 58 %, incl. lateral EMC sealing, incl. fixing screws. Torque moment for fastening screws = 0.9 Nm	Stainless steel EMC gasket, rail and forms the contact w suitable for all types of horiz	vith the cover plate;
Width	Depth	Application	1 poir		
HP 42	mm 175	160 mm board depth	1 pair 24560-031	PU 10 pieces	PU 100 pieces
42	235	160, 220 mm board depth	24560-031	24560-241	_
42	295	160, 220, 280 mm board depth	24560-032	24300-241	
63	175	160 mm board depth	24560-041		
63	235	160, 220 mm board depth	24560-042	24560-243	_
63	295	160, 220, 280 mm board depth	24560-043	2.000 240	
84	175	160 mm board depth	24560-051		
84	235	160, 220 mm board depth	24560-052		
84	295	160, 220, 280 mm board depth	24560-053		
84	355	160, 220, 280 mm board depth	24560-054	24560-245	24560-246
84	415	160, 220, 280 mm board depth	24560-055		
84	475	160, 220, 280 mm board depth	24560-056		
		r EMC gasket, prizontal rails), 1 piece	-	24560-271	

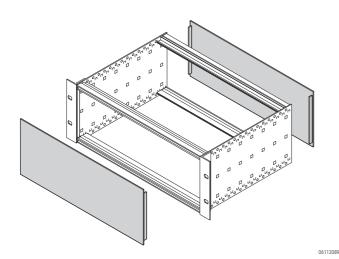


COVER/SHIELDING TO FRONT AND REAR

- The front and rear sides of the subrack can be shielded by a hinged front panel or by a fixed front panel and 19" brackets
- The rear can be shielded with a front panel and a corner profile

Rear hood





Front panel for front and rear

Front panel, hinged/pivoted

135842160



135842093

135842107



REAR HOOD FOR 3 U AND 6 U SUBRACKS (FOR STAINLESS STEEL EMC GASKET)

ORDER INFORMATION

Al, 1 mm, clear passivated; 60 mm additional side panel depth required (board depth + 60 mm); for shielding please order EMC gasket for horizontal rail garately; cannot be used simultaneously with rear corner profilestainless steel EMC gasket, clips into the horizontal rail and forms the contact with the cover plate; suitable for all horizontal railsHeightWidth1 piecePU 10 piecesPU 100 pieces34234561-75024560-241-34234561-75224560-24524560-24666334561-76324560-24524560-24666334561-76424560-24524560-2467734561-76424560-24524560-24668434561-76424560-24524560-2467734561-76424560-24524560-24668434561-76424560-24524560-2467734561-76424560-24524560-24668434561-76424560-24524560-24678434561-76424560-24524560-2468434561-76424560-24524560-2468434561-76424560-24524560-246		Rear hood	Stainless steel EMC plate and horizontal	gasket, between cover rail
U HP 1 piece PU 10 pieces PU 100 pieces 3 42 34561-750 24560-241 - 3 84 34561-752 24560-245 24560-246 6 63 34561-763 24560-243 - 6 84 34561-764 24560-245 24560-246 Torx panhead screw, M4 × 6, St, zinc-plated, PU 100 pieces 24560-135 - -		60 mm additional side panel depth required (board depth + 60 mm); for shielding please order EMC gasket for horizontal rail separately; cannot be used simultaneously with rear corner profile	stainless steel EMC gas clips into the horizontal forms the contact with	rail and the cover plate;
3 42 34561-750 24560-241 - 3 84 34561-752 24560-245 24560-246 6 63 34561-763 24560-243 - 6 84 34561-764 24560-245 24560-246 Torx panhead screw, M4 × 6, St, zinc-plated, PU 100 pieces 24560-135 24560-135 -			PUL 10 nieces	PUI 100 nieces
3 84 34561-752 24560-245 24560-246 6 63 34561-763 24560-243 - 6 84 34561-764 24560-245 24560-246 Torx panhead screw, M4 × 6, St, zinc-plated, PU 100 pieces 24560-135 -				-
6 63 34561-763 24560-243 - 6 84 34561-764 24560-245 24560-246 Torx panhead screw, M4 × 6, St, zinc-plated, PU 100 pieces 24560-135 24560-135 -				24560-246
6 84 34561-764 24560-245 24560-246 Torx panhead screw, M4 × 6, St, zinc-plated, PU 100 pieces 24560-135 - -				-
St, zinc-plated, PU 100 pieces		34561-764	24560-245	24560-246
Assembly tool, for EMC gasket, stainless steel (horizontal rails), 1 piece – 24560-271	St, zinc-plated, PU 100 pieces Assembly tool, for EMC gasket,	24560-135	24560-271	_

NOTE

• Other dimensions of rear hood available on request



FRONT/REAR PANELS, UNSHIELDED

ORDER INFORMATION

			Front panel					
			pre-anodised, cut edges plain		anodised	anodised		, green
			Al, 2.5 mm		Al, 2.5 mm		chromated Al, 2.5 mm	
Height U	Height mm	Width HP	1 piece	1 piece (SPQ 5) ¹⁾	1 piece	1 piece (SPQ 5) ¹⁾	1 piece	1 piece (SPQ 5) ¹⁾
1	44.45	28	_		_	(0, 0, 0)	20850-423	
	44.45	42	-	-	-	-	20850-423	-
	44.45	63	_	-	_	_	20850-425	-
	44.45	84	-	-	-	_	20850-425	-
)	84.0	84	30818-271	_	30807-416		30847-461	-
	128.4	2	-	30810-433	-	30810-432	-	30847-470
;	128.4	3	-	30818-272	-	30807-508	-	30847-471
	128.4	4	-	30818-273	-	30807-481	-	30838-043
	128.4	5	-	30818-274	_	30807-510	-	30838-044
	128.4	6	-	30818-275	-	30807-482	-	30838-045
	128.4	7	_	30818-276	_	30807-509	_	30838-046
	128.4	8	-	30818-277	-	30807-309	-	30838-047
	128.4	10	_	30818-279	_	30807-483	-	30838-047
	128.4	12	_	30818-281	-	30807-485	-	30838-051
	128.4	14	_	30818-282	_	30807-501	_	30838-053
	128.4	21	-	30818-282	_	30807-301	-	30838-060
	128.4	28			_	30807-487	_	
	128.4	42	-	30818-296				30838-067
	128.4	63	30818-310	_	30807-494	_	30838-081	_
			30818-331		30808-067		30838-102	
	128.4	84	30818-352	-	30807-506	-	30838-123	-
	172.9	42	-	-	-	-	30847-463	-
	172.9	63	-	-	-	-	30847-464	-
	172.9	84	30818-434	-	30807-596	-	30847-465	-
	261.8	2	-	30818-747	-	30818-741	-	30847-472
	261.8	4	-	30818-518	-	-	-	30838-124
	261.8	5	-	-	-	-	-	30838-125
	261.8	6	-	-	-	-	-	30838-126
	261.8	7	-	-	-	-	-	30838-127
	261.8	8	-	30818-522	-	-	-	30838-128
	261.8	10	-	30818-524	-	30807-753	-	30838-130
	261.8	12	-	30818-526	-	-	-	30838-132
	261.8	14	-	30818-528	-	30807-758	-	30838-134
	261.8	16	-	30818-530	-	-	-	30838-136
	261.8	21	-	30818-535	-	30807-757	-	30838-141
	261.8	28	-	30818-542	-	30807-766	-	30838-148
	261.8	42	30818-556	-	30807-764	-	30838-162	-
	261.8	63	30818-577	-	30807-771	-	30838-183	-
	261.8	84	30818-598	-	30807-776	-	30838-204	-
	395.1	4	-	-	-	-	-	30847-476
	395.1	8	-	-	-	-	-	30847-480
	395.1	10	-	-	-	-	-	30847-482
)	395.1	12	-	-	-	-	-	30847-484
)	395.1	84	-	-	-	-	30847-556	-

•Front panel assembly kits, sleeves, collar screws, quick-release fasteners see page 6.65

1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple



FRONT/REAR PANELS SHIELDABLE WITH STAINLESS STEEL EMC GASKET

ORDER INFORMATION

			Front panel				
			Front panel for shielding with EN	IC gasket (stainless steel)	Stainless steel EMC gasket		
				Al, 2.5 mm, front anodized, rear iridescent green chromated, 2		he grooves of the front panel, s above 70 °C	
leight	Height	Width					
	mm	HP	1 piece	1 piece (SPQ 5) ¹⁾	PU 10 pieces	PU 100 pieces	
	84	84	30846-588	-	21101-775	21101-776	
	128.4	2	-	30846-864			
	128.4	3	-	20846-425			
	128.4	4	-	20846-426			
	128.4 128.4	5 6	-	20846-427			
	128.4	7	-	20846-428			
	128.4	8	-	20846-429			
	128.4	8	-	20846-430 20846-431	21101-705	21101-706	
	128.4	10	_	20846-431	21101-705		
	128.4	12	_	20846-432			
	128.4	21	-	20846-433			
	128.4	28	-	20846-436			
	128.4	42	20846-437				
	128.4	63	20846-437	_			
	128.4	84	30846-676	_			
	172.9	42	30846-681	_			
	172.9	63	30846-682	-	21101-713	21101-714	
	172.9	84	30846-683	_	21101-713	21101-714	
	261.8	2		30846-865			
	261.8	4	-	20846-443			
	261.8	5	_	20846-444			
	261.8	6	-	20846-445			
	261.8	7	-	20846-446			
	261.8	8	-	20846-447			
	261.8	10	_	20846-448			
	261.8	10	-	20846-449	21101-707	21101-708	
	261.8	14	-	20846-450		21101 700	
	261.8	14	_	20846-456			
	261.8	21	-	20846-451			
	261.8	28	-	20846-452			
	261.8	42	20846-453	-			
	261.8	63	20846-454	-			
	261.8	84	30846-771	-			
· 	395.1	84	30846-859	_	21101-709	21101-710	
	ol, for stainless steel				24560-270		

•Front panel assembly kits, sleeves, collar screws, quick-release fasteners see page 6.65

1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple



FRONT/REAR PANELS SHIELDABLE WITH TEXTILE EMC GASKET

ORDER INFORMATION

			Front panel		Textile EMC gasket		
			Front panel for shielding with EN	IC sealing (textile)			
		Al extrusion, 2.5 mm, fr with alignment pin (not	Al extrusion, 2.5 mm, front anodised,rear conductive; 3, 6 U with alignment pin (not 84 HP)		textile gasket, core: foam, sleeve: textile cladding with CuNi coating, UL 94 V-0		
Height	Height	Width				Lever et al.	
U	mm	HP	1 piece	1 piece (SPQ 5) ¹⁾	PU 10 pieces	PU 100 pieces	
2	84	84	20848-262	-	-	21101-856	
3	128.4	2	-	30849-001			
3	128.4	3	-	30849-004			
3	128.4	4	-	30848-354			
3	128.4	5	-	30848-378			
3	128.4	6	-	30848-380			
3	128.4	7	-	30848-382			
3	128.4	8	-	30848-356			
3	128.4	10	-	30848-386	21101-853	21101-854	
3	128.4	12	-	30848-358			
3	128.4	14	-	20848-013			
3	128.4	21	-	20848-020			
3	128.4	28	-	20848-027			
3	128.4	42	20848-047	-			
3	128.4	63	20848-068	-			
3	128.4	84	20848-097	-			
4	172.9	28	-	20848-268			
1	172.9	42	20848-269	-	01101 050		
4	172.9	63	20848-270	-	21101-858	-	
4	172.9	84	20848-271	-			
6	261.8	2	-	30849-002			
5	261.8	4	-	30848-355			
5	261.8	5	-	30848-379	1		
5	261.8	6	-	30848-381	1		
5	261.8	7	-	30848-383			
5	261.8	8	-	30848-357	1		
5	261.8	10	-	30848-387			
5	261.8	12	-	30848-359	21101-855	21101-856	
5	261.8	14	_	20848-106			
5	261.8	16	_	20848-108	(
5	261.8	21	-	20848-113	1		
6	261.8	28	-	20848-120			
5	261.8	42	20848-139	-			
5	261.8	63	20848-159	_			
6		84		_			
9	261.8 395.1	84	20848-189 20848-280	-	21101-859	21101-904	

•Front panel assembly kits, sleeves, collar screws, quick-release fasteners see page 6.65

1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ);

please order at least the SPQ quantity or a multiple



FRONT PANELS, HINGED AND PIVOTED

ORDER INFORMATION

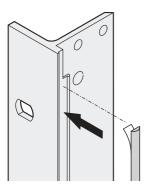
		Front pa	anel, bottom-hinged	Front panel, pivoted
		shielded	unshielded	
		Al, 2.5 mm,front anodised,rear conductive; textile EMC gasket hinge, Zn die-cast, nickel-plated; 2 / 3 x sleeve, PA; 2 / 3 x knurled screws or collar screws m2.5x12,3, St, nickel plated	Al, 2.5 mm, anodised, cut edges plain; hinge, Zn die-cast, nickel-plated; 2 / 3 x sleeve, PA; 2 / 3 knurled screws or collar screws M2.5 x 12.3, St, nickel-plated	Al, 2.5 mm, front anodised, rear conductive; hinge, die-cast zinc, chrome-plated; textile EMC gasket; 2/ 3 suleve, PA; 2 / 3 knurled screws or collar screws M2.5 x 12.3, St, nickel-plated
Height	Width			
U	HP	1 piece	1 piece	1 piece
3	28	20848-608	20838-280	-
3	42	20848-599	20838-271	-
3	63	20848-600	20838-272	-
3	84	20848-601	20838-273	20848-611
4	42	20848-605	20838-277	-
4	63	20848-606	20838-278	-
4	84	20848-607	20838-279	-
6	28	20848-696	-	-
6	42	20848-602	20838-274	-
6	63	20848-603	20838-275	-
6	84	20848-604	20838-276	20848-617

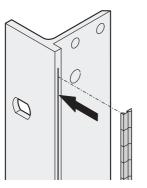
NOTE

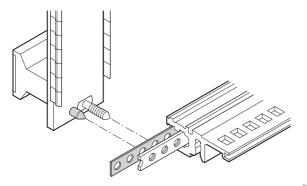
• Front panel can be removed in opened position (> 135°)



SHIELDING IS REQUIRED BETWEEN THE FOLLOWING COMPONENTS OF A SUBRACK







- Front panel/rear panel and horizontal rail, see page 6.55
- Front panel and 19" bracket/corner profile or in case of depth-offset installation, see page 6.55
- Cover plate/horizontal rail, see page 6.44
- Cover plate/side panel, see from page 6.44
- Horizontal rail/horizontal rail in combined mounting (3 U + 3 U and 6 U), see page 6.59
- Shielding for backplane and side panel see page 6.55

EMC shielding concepts

- · Shielding concepts in accordance with IEEE and IEC
- Shielding effectiveness has been determined in various series of measurements in accordance with IEC 61587-3 and can be found online together with the relevant standard product
- The combined use of stainless steel and textile EMC gaskets is functionally possible without any problems

EMC shielding concept with EMC textile gaskets

- The seal is affixed to the left-hand side of the subrack (viewed from front) or to the front panel profile, respectively
- An EMC gasket with CuNi coating assures a long-term high level of shielding, typically 40 dB at 2 GHz
- Temperature-resistant adhesive layer is protected by a removable film
- · Rear shielding is obtained using front panels or a rear hood
- Temperature range -40° C to +70° C or -40°C to +85°C
- Note: rear hood and corner profile cannot be used simultaneously

EMC shielding concept with stainless steel EMC gaskets)

- Symmetrical arrangement of EMC gaskets on the left and right hand sides of subrack and front panel
- Shielding: typically 40 dB at 2 GHz
- Can be used for temperatures above +70° C
- Note: rear hood and corner profile cannot be used simultaneously

Front panel shielding concept

- Front panels are available for textile or stainless steel EMC gasket options
- Alignment pins are pressed-in in the front panel to position the gaskets securely and to compress them evenly
- An alignment pin positions the perforated strip in the horizontal rail
- Alignment pin and perforated strip provide an optimal positioning of the shielded assemblies; the front panels are not forced sideways by the shielding elements (SCHROFF patent)

06112091

06108073



EMC GASKETS BETWEEN FRONT/REAR PANEL AND HORIZONTAL RAIL

ORDER INFORMATION

		Stainless steel EMC gasket between front panel/rear pane	000 00 00 00 00 00 00 00 00 00 00 00 00	06102053
Width	Depth			
HP	mm	PU 10 pieces	PU 100 pieces	
28	131.8	24560-229	-	
42	202.9	24560-231	-	
63	304.5	24560-233		
84	416.6	24560-235	24560-236	

EMC GASKETS BETWEEN FRONT PANEL AND 19" BRACKET/CORNER PROFILE

	Stainless steel EMC gas between front panel/rea 19" bracket/corner prof	ar panel and	Textile EMC gasket between front panel/re 19" bracket/corner pro		
	inserted laterally into the g	06105077 06105077 06108070 rooves	textile gasket, core: foam, sleeve: textile cladding wit UL 94 V-0	th CuNi coating,	06102056 06108054
Height Depth					
	PU 10 pieces	PU 100 pieces	PU 10 pieces	PU 100 pieces	
		21101-706	21101-853	21101-854	
		21101-714	21101-858	-	
	21101-707 21101-709	21101-708 21101-710	21101-855 21101-859	21101-856 21101-904	
	24560-270	21101-710	21101-037		



EMC GASKETS BETWEEN HORIZONTAL RAIL AND HORIZONTAL RAIL

ORDER INFORMATION

		Stainless steel EMC gasket
		between horizontal rail and horizontal rail
		tem 1: cover strip, Al, 1 mm, item 2: 2 x EMC seals (stainless steel); for shielding of 2 horizontal rails positioned directly one above the other if assembly area is divided vertically
Width	Depth	
HP	mm	PU 1 kit
20	107.0	24562-520
28	147.0	24562-528
40	208.0	24562-540
42	218.0	24562-542
63	325.0	24562-563
84		

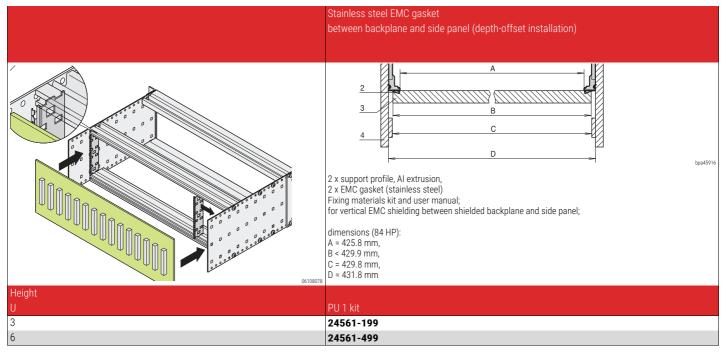
 SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

EMC GASKETS BETWEEN FRONT PANEL AND SIDE PANEL (DEPTH-OFFSET INSTALLATION)

Lem 1: 2 x support profiles, Al extrusion; item 2: 2 x stainless steel EMC gasket; fixing material kit for vertical EMC shielding between depth-offset shielded front panels and side panelLem 1: 2 x support profiles, Al extrusion; item 2: 1 x EMC textile gasket; fixing material kit for vertical EMC shielding between depth-offset shielded front panels and side panelHeightDepthUmmPU 1 kit397.54142.56187.524562-19924560-18024560-18024560-180	6						
Height Depth U mm PU 1 kit 3 97.5 24562-199		187.5	24562-49	9	24560-480		
Height Depth U mm PU1 kit	4	142.5	24562-299)	24560-280		
Height Depth	3	97.5	24562-19	9	24560-180		
Item 1: 2 x support profiles, Al extrusion; item 2: 2 x stainless steel EMC gasket; fixing material kit for vertical EMC shielding between			PU <u>1 kit</u>		PU 1 kit		
between front panel and side panel (depth-offset installation) between front panel and side panel (depth-offset installation)			(depth-offs	et installation)	(depth-offset	installation)	06102058



EMC GASKETS BETWEEN BACKPLANE AND SIDE PANEL



- With an appropriate design the backplane can be used as shielding rear panel; for that purpose a rear horizontal rail (type L-VT or H-VT) for depth-offset installation must be used to ensure the horizontal contact
- For vertical contact the support profile can be fixed to the europacPRO side panel (depth grid 30 mm)



SPECIAL INTERIOR MOUNTING PARTS

- Horizontal board mounting, see page 6.58
- Combined mounting: 3 U + 3 U and 6 U, see page 6.59
- Mounting plates, see page 6.60
- Central locking for PCBs, see page 6.61
- Divider plates, see page 6.61
- Air baffles, see page 6.62
- Telescopic slides, see page 6.63
- Fixing parts (bolts, nuts, assembly tools), see page 6.63

HORIZONTAL BOARD MOUNTING IN 3 OR 4 U SUBRACK

ORDER INFORMATION

	Horizontal board mounting in 3 or 4	1 U subrack	
	Board cage	Front frame for EMC shielding	Front frame, unshielded
6 HE H + 0 - 54 TE - 30 TE	6102073	bpa45913	bzz43061
(1 TE = 1 HP, 1 HE = 1 U)	Struts, die-cast zinc; horizontal rails front and rear; threaded inserts, St, zinc-plated; fixing material kit; for horizontal mounting of double-height euroboards in 3 or 4 U high subracks/cases; 54 HP space required; please order front frame for EMC shielding separately	2 horizontal covers, AI 2.5 mm, front anodised, rear iridescent green chromated; 2 vertical trims, AI extrusion, passivated; stainless steel EMC gasket; front frame provides the contact between subrack and the sub-assemblies	Al, 2.5 mm, clear anodised; front frame with cut-out, clear internal width w = 266.35 mm
Height Usable Mounting variants U height h Horizontal rail, front Horizontal rail, rear HP	PU 1 kit	PU 1 kit	1 piece
3 20 <u><u><u></u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	24564-117	24564-109	34564-108
ع ع ع 3 20 ٢٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠	24564-118	24564-109	34564-109
4 28 <u>۲۵۲۲ ۲۰۲۲</u>	24564-217	24564-209	34564-208
Assembly tool, for stainless steel EMC gasket	_	24560-270	-

* For direct backplane mounting

NOTE

• Please order front frame for EMC shielding separately



COMBINED MOUNTING (6 U AND 2 X 3 U ONE ABOVE THE OTHER)

ORDER INFORMATION

	Combined mounting:	Alternative front panels f	or combined mounting	Splitting extrusion
	horizontal and vertical subdivision	unshielded	front panel for	for combined mounting
	(incl. front panel for stainless steel	front panel,	textile EMC gasket,	item 2
	EMC gasket)	6 U, 2 HP	6 U, 2 HP	
		item 6	item 6	
	Ltem 1: 2 front horizontal rails (H-KD), Al extrusion, anodised; item 2: 2 rear horizontal rails (AB), Al extrusion, anodised; item 3: threaded inserts, St, zinc-plated; item 4: Zn die-cast support members; item 6: front panel 2 HP, 6 U, with EMC stainless steel gasket; 84:0 without items 4, 5 - Note see below 2)	Al, 2.5 mm, front anodised, rear iridescent green chromated	Al, 2.5 mm, U-profile with notch, 6 U, 2 HP	6 U, die-cast zinc; splitting extrusion is inserted in the grid holes of the horizontal rail; the splitting extrusion can be bolted
Width pitch T1:T2 HP		1 (000 5)	1 piece (SPQ 5) ¹⁾	1 piece
20:62	PU 1 kit 24562-420	1 (SPQ 5)		1 piece
40:42	24562-440			
42:40	24562-442	30847-472	30849-140	64560-010
63:19	24562-463	30847-472	30049-140	04500-010
84:0	24562-484			
Torx countersunk screw	24302-464			
M4 × 14, zinc-plated, PU 100 pieces to fixsplitting extrusion/horizontal rail	-	-	-	24560-145
Panhead screw				
M2.5 × 10, St, zinc-plated, PU 100 pieces	_	_	_	24560-179
to fix horizontal rail/splitting extrusion				2.000 177
Pozidrive/slotted collar screw				
M2.5 x 12.3, St,	-	21101-101	21101-101	-
nickel-plated, PU 100 pieces				
Pozidrive/slotted collar screw		21101-102	21101-102	
M2.5, black, zinc-plated, PU 100 pieces	_	21101-102	21101-102	-
Washer	_	21101-121	21101-121	_
2.7 x 5 x 1, PA 6, PU 100 pieces		21101-121	21101-121	
Textile gasket, core: foam,				
sleeve: textile cladding with CuNi coating,	-	-	21101-855	-
UL 94 V-0				
PU 10 pieces				

2) The following guide rails cannot be used: type "accessory", type "accessory, strengthened" and type "for 4.4" PCB"

- Subdivision of the 6 U assembly area into:
 - 2 x 3 U
 - 1 x 6 U
- Designed to accomodate euroboards (100 mm high) and double euroboards (233.35 mm high)

NOTE

- Please order EMC gasketing kit for horizontal rails separately, see page 6.56
- Please order perforated strips for horizontal rails separately, see page 6.35
- Please order rear centre horizontal rail separately, see page 6.33



MOUNTING PLATES

ORDER INFORMATION

				Mounting plate	Mounting plate	
				can be used in combination with cover plate	for use without cover plate	Fixing strip for partial widths
				Al, 1.5 mm; 1002305- mounting is only possible over the entire width between the side panels; width of mounting plate = W - 9.71 mm	6 Al, 1.5 mm; for mounting over partial width, please order fixing strips separately. Torque moment for fastening	bpa46557 St, 6.0 x 2.5 mm, M2.5, zinc-plated; hole distance 5.0mm, Strip can be bolted from front to rear onto the horizontal rails; to fix the partial mounting plates
				Torque moment for fastening screws = 1,5 Nm	screws = 1,5 Nm	
Width W	W	Depth	Board length			
HP	mm	mm	mm	1 piece	1 piece	1 piece
28	146.88	112.5	160	34563-001	34562-745	30840-021
28	146.88	172.5	220	34563-009	34562-749	30840-033
28	146.88	232.5	280	-	34562-753	30840-045
28	146.88	292,2	340	-	34562-757	30840-057
42	217.99	112,5	160	34563-002	34562-746	30840-021
42	217.99	172,5	220	34563-014	34562-750	30840-033
42	217.99	232,5	280	-	34562-754	30840-045
42	217.99	292,2	340	-	34562-758	30840-057
63	324.67	112,5	160	34563-003	34562-747	30840-021
63	324.67	172,5	220	34563-019	34562-751	30840-033
63	324.67	232,5	280	-	34562-755	30840-045
63	324.67	292,2	340	-	34562-759	30840-057
84	431.35	112,5	160	34563-004	34562-748	-
84	431.35	172,5	220	34563-024	34562-752	-
84	431.35	232,5	280	34563-026	34562-756	-
84	431.35	292,2	340	34563-028	34562-760	-
84	431.35	352,5	400	34563-042	34562-870	-
84	431.35	412,5	460	34563-044	34562-871	-
(Torx count zinc-plated screw M4 x	kit for mountin tersunk screv , 16 pieces; < 6, St, zinc-pl M4, St, zinc-p	v M4 x 5, St, ated, 14 piece	es;	24560-184	24560-184	-
plates	-		al width mounting	-	-	24560-146

NOTE

- For installation and fixing of heavy components
- In addition to the mounting plate, (EMC) cover plates can also be fitted to the subrack
- The mounting plate is as wide as the subrack or system case and is fixed to the side panels
- A guide rail can be fitted on the first and last slot
- Guide rails type "4.4" and type "strengthened" cannot be used



CENTRAL LOCKING

ORDER INFORMATION

	Central locking for PCBs without front panels
	bza45819 Item 1: central rail, Al, anodised; item 2: ID cardboard, white; item 3: transparent cover strip, plastic; item 4: 2 x knurled screw; item 5: 2 x slide nut; item 5: 2 x slide nut; item 5: 2 x slide nut; item 7: rubber gasket; central locking allows joint locking of PCBs and serves as identification strip; can be fitted to front and rear horizontal rails, suitable for 84 HP width
Width Length	1 atom
HP mm 84 426.0	1 piece 24560-167

DIVIDER PLATE

	Divider plate Mounting position when sta gasket is used	inless steel EMC Mounting position when textile EMC gasket is used
	space requirement on compone mounting direction varies with s retrofitting the divider plate in a will first require dismantling of t	shielding design (EMC stainless steel or textile gasket); n already-assembled subrack/case
Height Depth A B	Н	
U mm mm mm	mm PU 10 pieces	
3 160 158.3 135.0	113.5 34562-761	

U	mm	mm	mm	mm	PU 10 pieces
3	160	158.3	135.0	113.5	34562-761
3	220	218.3	195.0	113.5	34562-762
6	160	158.3	135.0	246.9	34562-763
6	220	218.3	195.0	246.9	34562-764



AIR BAFFLES FOR SLOTS

ORDER INFORMATION

			Air baffle without front panel	Air baffle with front panel Front panel with lateral groove for stainless steel EMC gasket	U front panel for textile EMC gasket
		601050	Al, 1 mm, incl. fixing material kit; prevents an air short circuit in unused slot positions; is pushed into the groove of the guide rail	Air baffle, Al, 1 mm; front panel, Al, 2.5 mm, front anodised, rear conductive; stainless steel EMC gasket; fixing material kit prevents an air short circuit in unused slot positions; is pushed into the groove of the guide rail	Air baffle, Al, 1 mm, front panel, Al extrusion, 2.5 mm, front anodised, rear conductive; textile EMC gasket, fixing material kit prevents an air short circuit in unused slot positions; is pushed into the groove ofthe guide rail
Depth	Width	Height			
mm	HP	U	1 piece	1 piece	1 piece
160	4	3	34562-823	20848-712	20848-728
160	4	6	34562-826	20848-720	20848-736
220	4	3	34562-824	20848-713	20848-729
220	4	6	34562-827	20848-721	20848-737
Assembly too for stainless s 1 piece	ol steel EMC gasket,	Ga	-	24560-270	-

NOTE

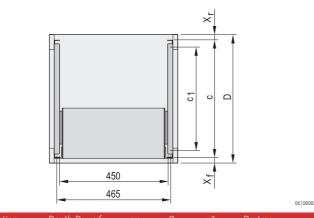
• Air baffle for 280 mm deep and for 80 mm rear I/O boards or other width (HP) available on request

SIMPLE TELESCOPIC SLIDE FOR ASSEMBLY OF SUBRACKS IN CABINETS



Order Information

Telescopic slides with guiding profile for fitting in cabinets



Description	Depth D	xf		С	c1	Part no.
	mm	mm	mm	mm	mm	
VARISTAR	600	50	50	500	368,8	24562-464
VARISTAR	800	50	50	700	568,8	24562-466
VARISTAR	900	50	50	800	668,8	24562-467
VARISTAR	1000	50	50	900	768,8	24562-468
VARISTAR	1100	50	50	1000	868,8	24562-472
VARISTAR	1200	50	50	1100	968,8	24562-473
eurorack	600	60	60	480	397	24562-449
eurorack	800	60	60	680	597	24562-451
eurorack	900	60	60	780	697	24562-452
NOVASTAR	500	33	60	407	350	24562-460
NOVASTAR	600	33	60	507	450	24562-461
NOVASTAR	800	33	60	707	650	24562-474
Lab rack	250	0	0	250	162	24562-446

x_f, x_r: Distance of 19" plane to cabinet edge (front, rear)

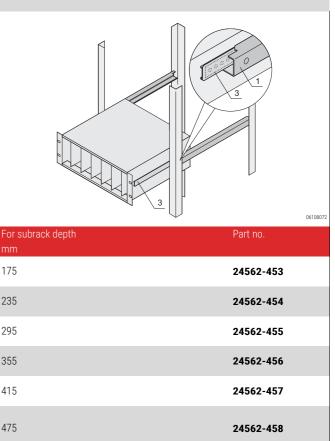
c: Distance of 19" planes from each other,

c1: Fixing dimension of guiding profile on 19" panel/slide mounts

- For mounting 84 HP wide subracks in the 19" plane
- Loading capacity: 25 kg per pair
- The guiding profile is matched to the fixing dimension in the cabinet (it is bolted to the 19" profile of the cabinet); the adaptor rail is matched to the depth and fixing dimension on the subrack (it is inserted into the guiding profile like a telescopic slide)
- Safety note: No protection against extraction, no stop at full extension

Order Information

Telescopic slides with adaptor rail for subracks

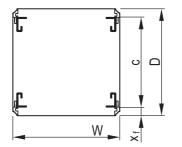






TELESCOPIC SLIDE, NARROW, FOR SUBRACK





C dimensions: Varistar 500 mm and 700 mm, Novastar 507 mm to 707 mm

• Suitable for 84 HP width subracks (type F, type H, type L)

- Locks at full extension
- Hinged
- Extension length > 100 %
- Rail width 7.5 mm
- Maximum clear width of extension/drawer w = 84 HP (435 mm)

DELIVERY INCLUDES

Item	Qty	Description	
1	2	Telescopic slide. St. zinc-plated	

ORDER INFORMATION

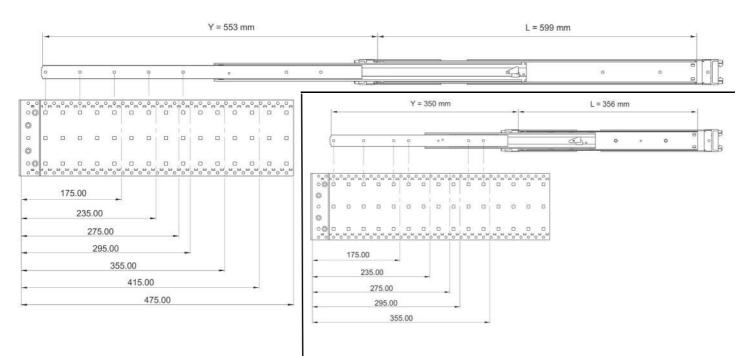
Delivery: su	Part no./35		
Fixing mat PU 1 kit	telescopic slides,	21120-194	
Fixing mat PU 1 kit	elescopic slides,	21120-193	
Accessori	es		
559	See table Technical data	15	60110-440
356	See table Technical data	15	60110-441
mm	mm	kg	
Length L	Extension length Y Load-carry- ing capacity P		Part no.

Technical data

Length L	Extension length Y Varistar SL/HD	Novastar SL	Novastar HD
mm	mm	mm	mm
356	350	362	352
559	553	565	555

NOTE

- To mount on 19" plane please order assembly kit separately
- Telescopic rail cannot be combined with BGTR with corner profile (rear)



Screw-on position for telescopic slide on side panel of subrack



- Quick-release fasteners
- Sleeves
- Screws
- Cage nuts
- Tools

- · Vibration and shock proof
- 1/4 rotary lock with defined stop
- Detection of locking position through slot position

DELIVERY COMPRISES

(Qty	Description
1	l	Locking pin, St, locking, Zn die-cast
1		Press-in sleeve, POM

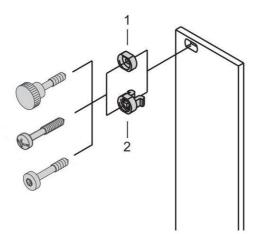
ORDER INFORMATION

Item	Description	Qty/PU	Part no.
1	With slotted head, grey	100	21101-847
1	With slotted head, black	100	21101-848
2	With knurled and slotted head, grey	100	21101-849
2	With knurled and slotted head, black	100	21101-850

NOTE

Quick-release fasteners: mounting without threaded inserts

SLEEVES



ORDER INFORMATION

Item	Description	Qty/PU	Part no.
2	Plastic sleeve, PA, grey	100	21100-464
2	Plastic sleeve, PA, black	100	21100-591
1	Metal sleeve, brass, nickel-plated	10	21100-659
1	Metal sleeve, brass, nickel-plated	100	21100-660
1	Metal sleeve, brass, black	10	21100-885
1	Metal sleeve, brass, black	100	21100-886
1	Metal sleeve, stainless steel	10	21100-661
1	Metal sleeve, stainless steel	100	21100-662

NOTE

- Metal sleeves must be pressed-in in front panels
- Sleeve does not fit in 2 HP wide front panels

QUICK-RELEASE FASTENERS



COLLAR SCREWS

ORDER INFORMATION

	Description	Application	Material	Dimension	Qty/PU	Part no.
	Collar screw with Philips drive/slot		St, nickel-plated	M2.5 x 12.3	100	21102-026
	Collar screw with pozidrive/slot	For mounting of front panels when using threaded inserts	St, nickel-plated	M2.5 x 12.3	100	21101-101
~			St, zinc-plated, black	M2.5 x 12.3	100	21101-102
aza45929			Stainless steel	M2.5 x 12.3	100	21101-906
at mil	Torx collar screw	For mounting of front panels when using threaded inserts	St, nickel-plated	M2.5 x 12.3	100	21101-782
AZ445941			St, zinc-plated, black	M2.5 x 12.3	100	21101-783
6 123 - 		For mounting of front panels when using threaded inserts	Brass, nickel-plated	M2.5 x 12.3	100	21101-749
12.5 - 12.3 -	Collar screw with knurled head	For mounting of front panels when using threaded inserts for horizontal rails with long lip	Brass, nickel-plated	M2.5 x 12.3	100	21101-909

TORX SCREWS, SELF-FORMING

	Description	Application	Material	Dimension	Qty/PU	Part no.
6707058	Torx panhead screw, self-forming	For extra-robust Al guide rails; torque max. 0.2 Nm	St, zinc flake coating, black	2.5 x 7.3	100	24560-157
CETOTISE	Torx countersunk screw, self-forming	For 4.4" board height, guide rail on horizontal rail, europacPRO, ratiopacPRO; torque max. 0.2 Nm	St, zinc-plated	2.5 x 7.7	100	24560-158
06/07/58	Torx panhead screw, self-forming	For plastic guide rail on horizontal rail; for panel bracket on horizontal rail; torque max. 0.2 Nm	St, zinc-plated	2.5 x 9.3	100	24560-141
06707058	Torx panhead screw, self-locking	For plastic guide rails on horizontal rails	St, zinc-plated	2.5 × 9.3	100	21500-039
0170000 06707058	Torx panhead screw	For 6 U support member, backplane mounting, centre horizontal rail	St, zinc-plated	2.5 × 10	100	24560-179



COUNTERSUNK SCREWS

ORDER INFORMATION

	Description	Application	Material	Dimension	Qty/PU	Part no.
to Internet	τ	For support profiles europacPRO, ratiopacPRO	St, zinc-plated	M4 x 5	100	24560-139
	Torx screw	For mixed board assembly and assembly of shortened horizontal rail on support member, with GND/earthing function	St, zinc-plated	M4 x 14	100	24560-145

TORX PANHEAD SCREWS

	Description	Application	Material	Dimension	Qty/PU	Part no.
and the second		For Z-rails and connector assembly	St, nickel-plated	M2.5 x 7	100	24560-147
Contraction of the second	Torx panhead	For perforated rails	St, nickel-plated	M2.5 x 10	100	24560-148
and the second se	screw	For backplane mounting	St, nickel-plated	M2.5 x 12	100	24560-161
- Summer		гог раскране поонцид	St, nickel-plated	M2.5 x 14	100	24560-162
azə45178	Washer	For insulated backplane mounting	Plastic, PA	2.8 x 6.3 x 2	100	21101-964
2245940	Screw + plastic washer (PA)	For backplane mounting	St, nickel-plated	M2.5 x 12	100	21100-777
		To bolt on support bracket, rear hood, corner profile on side panel, lengthening bracket and connecting bracket	St, zinc-plated	M4 x 6	100	24560-135
402		To bolt-on cover plate or mounting plate, with GND/earthing function	St, zinc-plated	M4 x 6	100	24560-151
		To bolt-on cover plate or mounting plate, with GND/earthing function, self-forming thread	St, zinc-plated	M4 × 6	100	21101-884
66707058	Torx panhead screw	For horizontal rail on side panel if guide rails are bolted to slot 1	St, zinc-plated	M4 x 10	100	24560-155
		For horizontal rail on side panel, with GND/earthing function	St, zinc-plated	M4 × 14	10	24560-131
and Barn		For horizontal rail on side panel, with GND/earthing function	St, zinc-plated	M4 x 14	100	24560-130



GRUB SCREWS

ORDER INFORMATION

	Description	Application	Material	Dimension	Qty/PU	Part no.
		For threaded inserts M2.5 and perforated strips Torque: 0,37Nm	Stainless steel	M2.5 x 9, Torx8	100	21102-980
() Jean	Grub screw	For threaded inserts M2.5	St, nickel-plated	M2.5 x 8	100	21100-276
0670205	053	For threaded inserts M3	St, zinc-plated	M3.0 x 8	100	21100-646

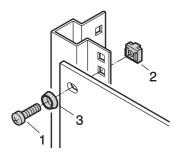
SQUARE NUTS

ORDER INFORMATION

	Description	Application	Material	Dimension	Qty/PU	Part no.
AZA4592	Square nut	For fixing: parts to side panels, support profiles, mounting plates	St, zinc-plated	M4	100	24560-140

SC128XXX

ASSEMBLY KITS



- · For assembly of subracks in cabinets or 19" cases
- For assembly of desk-top cases in cabinets by means of 19" brackets

DELIVERY COMPRISES (kit)

Item	Qty	Description
1	1	Pozidrive screw M6 × 16, zinc-plated
2	1	Plastic washer, ABS, black
3	1	Cage nut M6, steel nickel plated

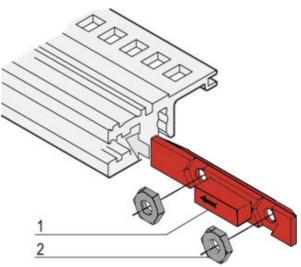
ORDER INFORMATION

Description	Part no.
PU = 8 × screw, washer, nut	21100-435
PU = 50 each of M6 screw, washer and cage nut	21101-809
PU = 100 each of M6 screw, washer and cage nut	21101-810

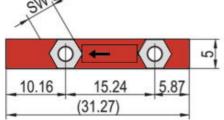
 For 19" brackets with material thickness of 1.5 mm, see "Assembly kits" in chapter Cabinet accessories



SLIDE, TO ACCOMODATE 2 NUTS



- 0
- 5W 5.05



• The slide is pushed into the groove of the horizontal rail to front or rear (type VT)

DELIVERY COMPRISES (kit)

Item	Qty	Description
1	1	Slide, PBT, red, UL 94 V-0
2	2	Nut, M2.5, St, acier nickelé

ORDER INFORMATION

Description		Part no.
Slide nut kit 1	100 slides/200 nuts	24560-165
Slide nut kit 2	12 slides/24 nuts	24560-166

NOTE

- Nuts used in item 3 suitable for:
- hinged front panels, 84 HP
- front or rear panels, 84 HP
- Nuts used in item 4 suitable for:
 hinged front panels
- Nuts used in item 3 and 4 suitable for:
- two front panels

06702060



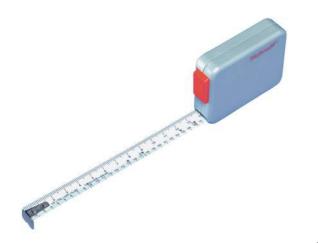
ASSEMBLY TOOLS

ORDER INFORMATION					
	Description	Application	Dimension	Qty/PU	Part no.
		T 8 torx	Τ8	1	64560-026
	Torx screwdriver	To fix the top cover locking	T10	1	64560-230
	AZA45925	T 20 torx	T20	1	64560-027
1 m	Assembly tool	Exclusively to fix stainless steel EMC gaskets in horizontal rails	-	1	24560-271
Co	Assembly tool	To fix stainless steel EMC gaskets on front panels with lateral slots	-	1	24560-270

NOTE

 Assembly tool to insert keying/coding pegs in guide rails is available on request

TAPE MEASURE



- Measuring tape with cm, U-, HP-division (length 2 m)
- Plastic housing, metal measuring tape with automatic collection

Description	Qty/PU piece	Part no.
Tape measure	1	89009-001



APPLICATION EXAMPLES

Application: Transportation/defense sectors



· Mounting frame to accomodate a 36 HP wide railway subrack, frame from stainless steel



- · Robust assembly by double bolt-on fixing
- Lateral ducting in cabinet
- Combined mounting 6 U+ 2 x 3 U

Application: Measurement, control and instrumentation sectors



- Combined mounting with 2 x 3 U in 6 U
- · Divider plate to separate different sections
- · Installation with strengthened guide rails

Application: Telecoms sectors



- · Subrack with additional telescopic fan unit
 - · Adaptation at bottom and top integrated into the side panel



- · Shielded subrack for special applications with mounting plate, cover and base plate
- · Mounting plate for heavy assemblies



- Subrack with plastic cable ducting for fibre optic cables
- Terminal area at top



06108006

06108002

06112023

06108003

nvent schroff

PLATFORM-BASED STANDARD SOLUTIONS FOR INDIVIDUAL REQUIREMENTS

Practical technology without time-consuming assembly. The modular europacPRO product platform allows a wide range of possible applications with only a few components. The intelligent design of all components results in remarkably simple and fast management in assembly and components.

Simple assembly with europacPRO kits:



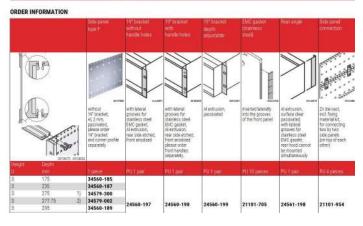
Delivered in space-saving flat packs. The threaded inserts or EMC gasket (depending on selected kit) are already pre-mounted on the horizontal rail.

Two ways of reaching your desired product:

- Kits
- Individual configuration

Individual configuration:

SIDE PANELS TYPE F FOR STAINLESS STEEL GASKET



06109052

You design your subrack as you wish, then receive it fully assembled via our ServicePLUS assembly service (even for orders of just one). We can also carry out individual modifications and cut-outs; and when time is short can do so very fast via ServicePLUS express.

HORIZONTAL RAILS AND SIDE PANELS FOR DIFFERENT LOAD-CARRYING CLASSES

06107001

06112004





Light

06197007

Heavy

06197008 Rugged

Horizontal rails are available for three load classes:

- "light" (load up to approx. 7.5 kg)
- "heavy" (load > 7.5 kg)
- "rugged" (load 15 kg)

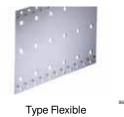


Type Light

0619700



Type Heavy



611221

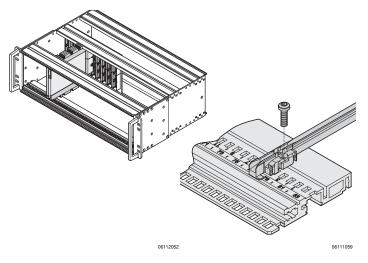
Type Rugged

Side panels for 4 different load classes

- · Light: low-cost version with built-in 19" mounting bracket
- Flexible: with separate, depth-adjustable 19" mounting bracket
- Heavy: with integrated, tox-cold welded 19" mounting bracket, e.g. for shock and vibration environments up to 5 g
- Rugged: with integrated, tox-cold welded 19" mounting bracket and higher material thicknesses for extreme mechanical stresses, e.g. for increased shock and vibration environments up to 25 g
- The combination of the 3 horizontal rail variants with the 4 types of side panel results in an almost unlimited variety of potential applications for various market requirements



GUIDE RAILS FROM PLASTIC AND ALUMINIUM PROFILES



Guide rails form the interface between the subrack mechanics and the assemblies (boards, plug-in units, frame type plug-in units, drive unit modules, ...).

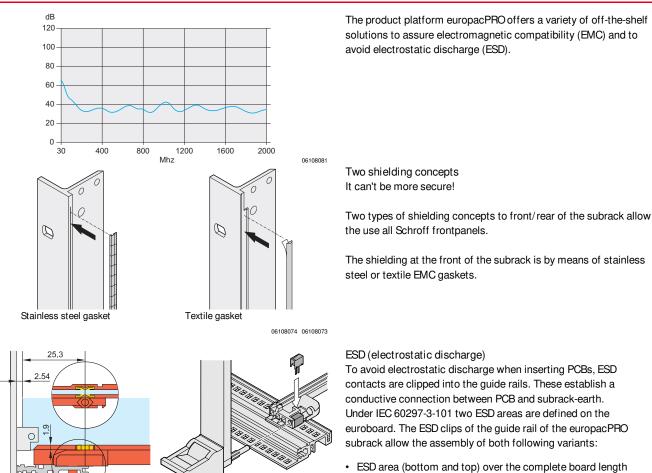
Robust snap-in fixings on the plastic rails assure a secure grip, even when exposed to vibrations. In the case of H and R-type horizontal rails the guide rails can also be bolted on. For extreme stresses, guide rails in aluminium extrusion are used.

To ensure that the wrong subassembly is not inserted into the wrong space we offer a mechanical coding to IEEE 1101.10/11 and IEC 60297-3-103.

The continuous numbering on the horizontal rail (from 28 HP) and the markings on the guide rails facilitate quick fitting in the correct position.

We offer the appropriate adaptors for accommodating VPX or CompactPCI boards with strengthening frame or conduction-cooled assemblies (CCA) installed in a subrack.

ELECTROMAGNETIC SHIELDING AND ESD



• ESD area (bottom/top) begins at the front from 70 mm to end of board)

04503050 06103052

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