

\*\*\* no longer available \*\*\* SIMATIC IPC1047 - Virtualize (rack PC, 19", 4 U); 2x Intel Xeon E5-2658v4; 16x 8 GB DDR4 ECC SDRAM; 1x system SSD 480 GB; 4x DATA SSD 1.9TB 2x Gbit Ethernet, IPMI, RJ45; 1x VGA, 1x COM 1, TPM1.2; 2x USB 3.0, 2x USB on the rear side; 2x USB 3.0 front; Windows Server 2012 R2 power supply 700 W redundant temperature and fan monitoring; HW RAID controller



Installation type/mounting	
Mounting	For horizontal rack mounting
Design	Rack PC, 19", 4U
Supply voltage	
Type of supply voltage	AC redundant 100/240 V (autorange) 50 Hz/60 Hz
Line frequency	
<ul style="list-style-type: none"> <li>Rated value 50 Hz</li> </ul>	Yes
<ul style="list-style-type: none"> <li>Rated value 60 Hz</li> </ul>	Yes
Mains buffering	
<ul style="list-style-type: none"> <li>Mains/voltage failure stored energy time</li> </ul>	20 ms
Processor	
Processor type	Xeon E5-2658 v4 (14C/28T, 2.3 (2.8) GHz, 35 MB cache)
Chipset	Intel PCH C612
Graphic	
Graphics controller	Onboard VGA / 2D controller 1 920 × 1 200 @ 60 Hz 32 bpp
Drives	
Hard disk	1x 480 GB SSD, 4x 1.9 TB SSD
SSD	Yes
Memory	
Type of memory	DDR4-SDRAM DIMM
Main memory	128 GB, 2 400 MHz
Capacity of main memory, max.	2 Tbyte
Hardware configuration	
Slots	
<ul style="list-style-type: none"> <li>free slots</li> </ul>	6 slots: 3x PCIe (x16), 3x PCIe (x8)
<ul style="list-style-type: none"> <li>Number of PCI slots</li> </ul>	0
<ul style="list-style-type: none"> <li>Number of PCI slots</li> </ul>	6
Interfaces	
Number of industrial Ethernet interfaces	2
Number of PROFINET interfaces	0
USB port	4x USB 3.0: 2x on rear, 2x on front; 2x USB 2.0: 2x on rear
Integrated Functions	
Monitoring functions	
<ul style="list-style-type: none"> <li>Temperature monitoring</li> </ul>	Yes
<ul style="list-style-type: none"> <li>Status LEDs</li> </ul>	POWER, HDD, FAN Fail
<ul style="list-style-type: none"> <li>Fan</li> </ul>	Yes
<ul style="list-style-type: none"> <li>Monitoring function via network</li> </ul>	Yes (per IPMI)
EMC	

<b>Interference immunity against discharge of static electricity</b>	
<ul style="list-style-type: none"> <li>Interference immunity against discharge of static electricity</li> </ul>	±4 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
<b>Interference immunity against high-frequency electromagnetic fields</b>	
<ul style="list-style-type: none"> <li>Interference immunity against high frequency radiation</li> </ul>	10 V/m for 80 - 1 000 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 1 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 150 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6
<b>Interference immunity to cable-borne interference</b>	
<ul style="list-style-type: none"> <li>Interference immunity on supply cables</li> <li>Interference immunity on signal cables &gt;30m</li> <li>Interference immunity on signal cables &lt; 30m</li> </ul>	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric ±2 kV acc. to IEC 61000-4-4, burst; ±2 kV acc. to IEC 61000-4-5, surge ±1 kV acc. to IEC 61000-4-4, Burst
<b>Interference immunity against voltage surge</b>	
<ul style="list-style-type: none"> <li>asymmetric interference</li> <li>symmetric interference</li> </ul>	±2 kV acc. to IEC 61000-4-5, surge asymmetric ±1 kV acc. to IEC 61000-4-5, surge symmetric
<b>Interference immunity to magnetic fields</b>	
<ul style="list-style-type: none"> <li>Interference immunity to magnetic fields at 50 Hz</li> </ul>	100 A/m; to IEC 61000-4-8
<b>Emission of conducted and non-conducted interference</b>	
<ul style="list-style-type: none"> <li>Interference emission via line/AC current cables</li> </ul>	EN 61000-6-3, FCC Class A, EN 61000-6-4, CISPR 22, EN 55022 Class B, EN 61000-3-2 Class D, EN 61000-3-3
<b>Degree and class of protection</b>	
IP degree of protection	IP30
IP (rear)	IP20
<b>Standards, approvals, certificates</b>	
CE mark	Yes; For use in industrial areas as well as domestic, business and commercial environments (emitted interference: EN 61000-6-3:2007 +A1:2011, noise immunity: EN 61000-6-2:2005)
CSA approval	Yes
cULus	Yes
FCC	Yes
EMC	CE, EN 61000-6-3:2007 +A1:2011, EN 61000-6-2:2005
Dust protection	With front door closed: G2 EN 779, 99% of particles > 0.5 mm are filtered
<b>Ambient conditions</b>	
<b>Ambient temperature during operation</b>	
<ul style="list-style-type: none"> <li>Ambient temperature during operation</li> </ul>	0 to +40 °C
<b>Ambient temperature during storage/transportation</b>	
<ul style="list-style-type: none"> <li>min.</li> <li>max.</li> </ul>	-20 °C 60 °C
<b>Relative humidity</b>	
<ul style="list-style-type: none"> <li>Relative humidity</li> </ul>	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)
<b>Vibrations</b>	
<ul style="list-style-type: none"> <li>Vibration resistance during operation acc. to IEC 60068-2-6</li> </ul>	Tested according to IEC 60068-2-6, 10 cycles; 20 to 58 Hz: 0.015 mm; 58 to 200 Hz: 2 m/s <sup>2</sup> (0.2 g)
<b>Shock testing</b>	
<ul style="list-style-type: none"> <li>Shock load during operation</li> </ul>	Tested according to IEC 60068-2-27; half-sine: 9.8 m/s <sup>2</sup> (1 g), 20 ms, 100 shocks per axis
<b>Operating systems</b>	
pre-installed operating system	Windows Server 2012 R2
pre-installed operating system	
<ul style="list-style-type: none"> <li>Windows 7</li> </ul>	Yes
<b>Dimensions</b>	
Width	430 mm
Height	176.6 mm; 4U
Depth	572 mm
<b>last modified:</b>	9/17/2021 