

**Data sheet | Item number: 704-2024**

Interface module for system wiring; Pluggable connector per DIN 41651;  
Male connector; 20-pole; 16-channel digital input or output; 2-wire  
connection; in mounting carrier

[www.wago.com/704-2024](http://www.wago.com/704-2024)



**Data**

**Electrical data**

Inputs/outputs	16-channel digital input or output
Circuit type	2-wire connection
Nominal operating voltage	DC 24 V
Operating voltage range	±10 %
Current consumption (status indication)	5 mA

Subject to changes. Please also observe the further product documentation!

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Total current	2 A
Limiting continuous current	1 A
Status indicator	Green LED (channel) Yellow LED (power supply)
Internal fuse	2 A

## Safety and protection

Rated voltage	50 V
Rated surge voltage	0.8 kV
Pollution degree	2

## Compatibility

### Siemens

Siemens S7-300	6ES7 313-5BE01-0AB0 6ES7 313-5BG04-0AB0 6ES7 313-6BE01-0AB0 6ES7 313-6BF03-0AB0 6ES7 313-6CE01-0AB0 6ES7 313-6CF03-0AB0 6ES7 314-6BF01-0AB0 6ES7 314-6BG03-0AB0 6ES7 314-6CF01-0AB0 6ES7 314-6CG03-0AB0 6ES7 321-1BH02-0AA0 6ES7 321-1BH10-0AA0 6ES7 321-1BH80-0AA0 6ES7 321-1BL00-0AA0 6ES7 321-1BL80-0AA0 6ES7 321-1BP00-0AA0 6ES7 321-7BH01-0AB0 6ES7 321-7BH80-0AA0 6ES7 322-1BH01-0AA0 6ES7 322-1BH10-0AA0 6ES7 322-1BH80-0AA0 6ES7 322-1BL00-0AA0 6ES7 322-1BP00-0AA0 6ES7 322-1EH01-0AA0 6ES7 322-8BH01/8BH10-0AB0 6ES7 323-1BL00-0AA0 6ES7 326-1BK01-0AB0 6ES7 326-1RF00-0AB0
Siemens S7-400	6ES7 421-1BL01-0AA0

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6ES7 421-7BH01-0AB0  
6ES7 422-1BL00-0AA0  
6ES7 422-7BL00-0AB0

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Siemens S7-1500

6ES7 511-1CK00-0AB0  
6ES7 512-1CK00-0AB0  
6ES7 521-1BH00-0AA0  
6ES7 521-1BH10-0AA0  
6ES7 521-1BL00-0AB0  
6ES7 521-1BL10-0AA0  
6ES7 521-1BP00-0AA0  
6ES7 522-1BH00-0AB0  
6ES7 522-1BH01-0AB0  
6ES7 522-1BH10-0AA0  
6ES7 522-1BL00-0AB0  
6ES7 522-1BL01-0AB0  
6ES7 522-1BL10-0AA0  
6ES7 522-1BP00-0AA0  
6ES7 523-1BL00-0AA0

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Siemens ET200SP

6ES7 131-6BH01-0BA0  
6ES7 131-6BH01-2BA0  
6ES7 132-6BH00-0AA0  
6ES7 132-6BH00-2AA0  
6ES7 132-6BH01-0BA0  
6ES7 132-6BH01-2BA0

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## GE Fanuc

GE Fanuc 9030

IC693 MDL241  
IC693 MDL640  
IC693 MDL643  
IC693 MDL645  
IC693 MDL646  
IC693 MDL655  
IC693 MDL740  
IC693 MDL742  
IC693 MDL753

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GE Fanuc RX3i

IC694 MDL655  
IC694 MDL753

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## Schneider

Schneider Modicon TM3

TM3 DI16(G)  
TM3 DI16K  
TM3 DI32K  
TM3 DQ16T(G)  
TM3 DQ16TK  
TM3 DQ32TK

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Schneider Modicon M340

BMX DDI 1602  
 BMX DDI 3202K  
 BMX DDI 6402K  
 BMX DDO 1602  
 BMX DDO 3202K  
 BMX DDO 6402K  
 BMX DDM 3202K

Schneider Modicon Quantum

140 DDI 353 00  
 140 DDI 364 00  
 140 DDO 353 00  
 140 DDO 353 01  
 140 DDO 364 00  
 140 DDM 390 00  
 140 DSI 353 00  
 140 DVO 853 00

Schneider TSX

TSX DEY 16D2  
 TSX DEY 16FK  
 TSX DEY 32D2K  
 TSX DEY 64D2K  
 TSX DMY 28FK  
 TSX DMY 28RFK  
 TSX DSY 16T2  
 TSX DSY 32T2K  
 TSX DSY 64T2K  
 TSX DMZ 28DT  
 TSX DMZ 28DTK  
 TSX DMZ 64DTK  
 TSX DSZ 32T2  
 TSX DEZ 12D2K  
 TSX DEZ 32D2

Schneider Twido

TM2 DDI 16DK  
 TM2 DDI 32DK  
 TM2 DDO 16TK  
 TM2 DDO 32TK

**Rockwell**

Rockwell Compact Logix

1769 - IQ16  
 1769 - IQ16F  
 1769 - IQ32  
 1769 - IQ32T  
 1769 - OB16  
 1769 - OB16P  
 1769 - OB32  
 1769 - OB32T

Rockwell Control Logix

1756 - IB16I  
 1756 - IB16ISOE

Subject to changes. Please also observe the further product documentation!



1756 - IB32  
 1756 - OB16E  
 1756 - OB16I  
 1756 - OB16IS  
 1756 - OB32

## Omron

Omron CJ1W	CJ1W-ID211
	CJ1W-ID231
	CJ1W-ID232
	CJ1W-ID261
	CJ1W-ID262
	CJ1W-IDP01
	CJ1W-INT01
	CJ1W-MD232
	CJ1W-OD212
	CJ1W-OD232
	CJ1W-OD262

## WAGO

WAGO I/O System 750	750-1400
	750-1500
	750-1502

WAGO I/O System 753	753-430 (x2)
	753-431 (x2)
	753-530 (x2)

## Connection data

### Connection 1

Connector	DIN 41651 connector; male connector
Pole number 1	20
Connection type 1	System
Note (conductor cross-section)	12 AWG: THHN, THWN
Mating direction	vertical

### Connection 2

Design 2	PCB terminal blocks (double-deck)
Pole number 2	32
Connection type 2	Field

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WAGO connector 2	WAGO 736 Series
Solid conductor 2	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG
Fine-stranded conductor 2	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG
Strip length 2	5 ... 6 mm / 0.2 ... 0.24 inches

### Connection 3

Design 3	PCB terminal blocks (double-deck)
Pole number 3	6
Connection type 3	Power supply
WAGO connector 3	WAGO 736 Series
Solid conductor 3	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG
Fine-stranded conductor 3	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG
Strip length 3	5 ... 6 mm / 0.2 ... 0.24 inches

### Physical data

Width	85 mm / 3.346 inches
Height	85 mm / 3.346 inches
Depth from upper-edge of DIN-rail	50 mm / 1.969 inches

### Mechanical Data

Mounting type	DIN-35 rail
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### Material Data

Fire load	1.976 MJ
Weight	112.3 g

### Environmental requirements

Ambient temperature (operation)	-20 ... +50 °C
Ambient temperature (storage)	-40 ... +70 °C
Relative humidity	85% (non-condensing)

### Commercial data

Product Group	30 (WAGO France)
eCl@ss 10.0	27-14-11-52
eCl@ss 9.0	27-14-11-52
ETIM 8.0	EC002780

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ETIM 7.0	EC002780
Recupel Type	
PU (SPU)	1 pcs
Packaging type	box
Country of origin	FR
GTIN	4050821220657
Customs tariff number	85366990990

## Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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## Optional accessories

### Cables and pluggable connectors

System cable		
<b>Item no.: 706-2300/301-300</b> System cable; for Siemens S7-300; 2 x 16 digital inputs or outputs; Length: 3 m; Conductor cross-section: 0.14 mm <sup>2</sup>		<a href="http://www.wago.com/706-2300/301-300">www.wago.com/706-2300/301-300</a>
<b>Item no.: 706-2300/301-200</b> System cable; for Siemens S7-300; 2 x 16 digital inputs or outputs; Length: 2 m; Conductor cross-section: 0.14 mm <sup>2</sup>		<a href="http://www.wago.com/706-2300/301-200">www.wago.com/706-2300/301-200</a>
<b>Item no.: 706-2300/100-200</b> System cable; for Siemens S7-300; 2 x 16 digital inputs; Length: 2 m; Conductor cross-section: 0.34 mm <sup>2</sup>		<a href="http://www.wago.com/706-2300/100-200">www.wago.com/706-2300/100-200</a>
<b>Item no.: 706-2300/200-100</b> System cable; for Siemens S7-300; 2 x 16 digital outputs; Length: 1 m; Conductor cross-section: 0.14 mm <sup>2</sup>		<a href="http://www.wago.com/706-2300/200-100">www.wago.com/706-2300/200-100</a>
<b>Item no.: 706-2300/100-100</b> System cable; for Siemens S7-300; 2 x 16 digital inputs; Length: 1 m; Conductor cross-section: 0.34 mm <sup>2</sup>		<a href="http://www.wago.com/706-2300/100-100">www.wago.com/706-2300/100-100</a>
<b>Item no.: 706-2300/100-300</b> System cable; for Siemens S7-300; 2 x 16 digital inputs; Length: 3 m; Conductor cross-section: 0.34 mm <sup>2</sup>		<a href="http://www.wago.com/706-2300/100-300">www.wago.com/706-2300/100-300</a>
<b>Item no.: 706-2300/101-200</b> System cable; for Siemens S7-300; 16 digital inputs; Length: 2 m; Conductor cross-section: 0.34 mm <sup>2</sup>		<a href="http://www.wago.com/706-2300/101-200">www.wago.com/706-2300/101-200</a>
<b>Item no.: 706-2300/200-300</b> System cable; for Siemens S7-300; 2 x 16 digital outputs; Length: 3 m; Conductor cross-section: 0.14 mm <sup>2</sup>		<a href="http://www.wago.com/706-2300/200-300">www.wago.com/706-2300/200-300</a>

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**Item no.: 706-2300/101-300** [www.wago.com/706-2300/101-300](http://www.wago.com/706-2300/101-300)  
System cable; for Siemens S7-300; 16 digital inputs; Length: 3 m; Conductor cross-section: 0.34 mm<sup>2</sup>

**Item no.: 706-2300/200-200** [www.wago.com/706-2300/200-200](http://www.wago.com/706-2300/200-200)  
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**Item no.: 706-2300/301-100** [www.wago.com/706-2300/301-100](http://www.wago.com/706-2300/301-100)  
System cable; for Siemens S7-300; 2 x 16 digital inputs or outputs; Length: 1 m; Conductor cross-section: 0.14 mm<sup>2</sup>

**Item no.: 706-2300/300-200** [www.wago.com/706-2300/300-200](http://www.wago.com/706-2300/300-200)  
System cable; for Siemens S7-300; 16 digital inputs or outputs; Length: 2 m; Conductor cross-section: 0.14 mm<sup>2</sup>

**Item no.: 706-2300/300-300** [www.wago.com/706-2300/300-300](http://www.wago.com/706-2300/300-300)  
System cable; for Siemens S7-300; 16 digital inputs or outputs; Length: 3 m; Conductor cross-section: 0.14 mm<sup>2</sup>

**Item no.: 706-7753/301-200** [www.wago.com/706-7753/301-200](http://www.wago.com/706-7753/301-200)  
System cable; for WAGO-I/O-SYSTEM, 753 Series; 2 x 16 digital inputs or outputs; Length: 2 m; Conductor cross-section: 0.14 mm<sup>2</sup>

#### Connecting cable

**Item no.: 706-100/1300-200** [www.wago.com/706-100/1300-200](http://www.wago.com/706-100/1300-200)  
Connection cable; 20-pole; Pluggable connector per DIN 41651; open-ended; Length: 2 m; Conductor cross-section: 0.14 mm<sup>2</sup>; UR components

**Item no.: 706-100/1300-400** [www.wago.com/706-100/1300-400](http://www.wago.com/706-100/1300-400)  
Connection cable; 20-pole; Pluggable connector per DIN 41651; open-ended; Length: 4 m; Conductor cross-section: 0.14 mm<sup>2</sup>; UR components

#### Marking accessories

##### Marking strip

**Item no.: 2009-110** [www.wago.com/2009-110](http://www.wago.com/2009-110)  
Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

**Item no.: 709-196** [www.wago.com/709-196](http://www.wago.com/709-196)  
Marking strips; for laser printer; translucent

**Item no.: 709-178** [www.wago.com/709-178](http://www.wago.com/709-178)  
Marking strips; on reel; 7.5 mm wide; not stretchable; plain; snap-on type; white

**Item no.: 709-177** [www.wago.com/709-177](http://www.wago.com/709-177)

Subject to changes. Please also observe the further product documentation!





Marking strips; on reel; 7.5 mm wide; not stretchable; plain; snap-on type; translucent

## Downloads

### Documentation

#### Bid Text

704-2024 X81 - Datei	2019 年2月19 日	xml 3.9 kB	Download
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704-2024 doc - Datei	2015 年11月20 日	doc 26.1 kB	Download
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#### Additional Information

Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 2022 年8月18 日	pdf 2.2 MB	Download
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#### System Description

WAGO System Wiring, Selection Guide This guide will help you select the appropriate interface modules and system cables for the controller you are usng.		pdf 545.9 kB	Download
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## CAD/CAE-Data

### CAD data

2D/3D Models 704-2024		URL	Download
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### CAE data

EPLAN Data Portal 704-2024		URL	Download
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WSCAD Universe 704-2024		URL	Download
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ZUKEN Portal 704-2024		URL	Download
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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 704-2024		URL	Download
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Interface module for system wiring; Pluggable connector per DIN 41651; Male connector; 20-pole; 16-channel digital input or output; 2-wire connection; in mounting carrier

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## Installation Notes

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