EM-ETH-GATEWAY-IFS - Data interface

2901988

https://www.phoenixcontact.com/us/products/2901988

Gateway for the connection of up to 32 INTERFACE system devices to a higher-level controller via EtherNet/IP™. The INTERFACE system devices are connected to the Gateway via DIN rail connectors, the DIN rail connectors are provided.

Commercial data

Item number	2901988
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C477
Product key	CK7712
Catalog page	Page 20 (C-5-2019)
GTIN	4046356641937
Weight per piece (including packing)	201.6 g
Weight per piece (excluding packing)	194.2 g
Customs tariff number	85176200
Country of origin	DE

Technical data

Notes

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area

Product properties

Product type	Gateways/Proxies
Operating mode	100% operating factor

Insulation characteristics

Overvoltage category	III
Pollution degree	2

Electrical properties

Supply

Rated control circuit supply voltage U_S	24 V DC -20 % ... +25 %
Rated control supply current I_S	85 mA (plus load current of the outputs)
Protective circuit	Reverse polarity protection
	Surge protection

Input data

Digital

Number	8
Rated actuating voltage U_C	24 V DC ±20 %
Rated actuating current I_C	3 mA
Protective circuit	Reverse polarity protection
	Surge protection

Output data

Digital: Switching outputs

Number	4
Residual voltage	1 V
Maximum switching voltage	23 V DC (U_B - $U_{resid.}$ of the output)
Max. switching current	500 mA
Protective circuit	Parallel protection against polarity reversal, pay attention to the fuse (Fusing with max. 8 A F-fuse)

Connection data

Supply

Connection method	Screw connection

2901988

https://www.phoenixcontact.com/us/products/2901988

Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm² ... 2 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 12

Programming connection

Connection method	S-PORT (socket)
Number of connections	1
Number of positions	12

INTERFACE system

Connection method	DIN rail bus connectors
Number of connections	1
Number of positions	5

Ethernet/IP™

Connection method	RJ45
Number of connections	1

Interfaces

Data: Interface-System

Data rate	76800 Baud
Serial transmission speed	76.8 kbps
Connection method	DIN rail bus connectors
	S-PORT (male connector)

Data: EtherNet/IP™

Serial transmission speed	100 Mbps
Connection method	RJ45 jack

Data: Network interface

Communication protocol	EtherNet/IP™
Connection method	RJ45 jack
Number of connections	1
Transmission speed	10 Mbps
	100 Mbps

Data: Service interface

Communication protocol	INTERFACE-System
Connection method	S-PORT (socket)
Number of connections	1
Number of positions	12

Data: Device bus

Communication protocol	INTERFACE-System
Connection method	DIN rail bus connectors

2901988

https://www.phoenixcontact.com/us/products/2901988

Number of connections	1
Number of positions	5
Transmission speed	76.8 kbps

Dimensions

Width	22.5 mm
Height	107.8 mm
Depth	113.8 mm

Material specifications

Color	gray (RAL 7042)
Housing material	Polyamide PA non-reinforced

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 50 °C
Ambient temperature (storage/transport)	-35 °C ... 80 °C

Approvals

UKCA

Certificate	UKCA-compliant

Standards and regulations

Standards/regulations	EN 50178

Mounting

Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
Mounting position	any

2901988

https://www.phoenixcontact.com/us/products/2901988

Drawings

Block diagram
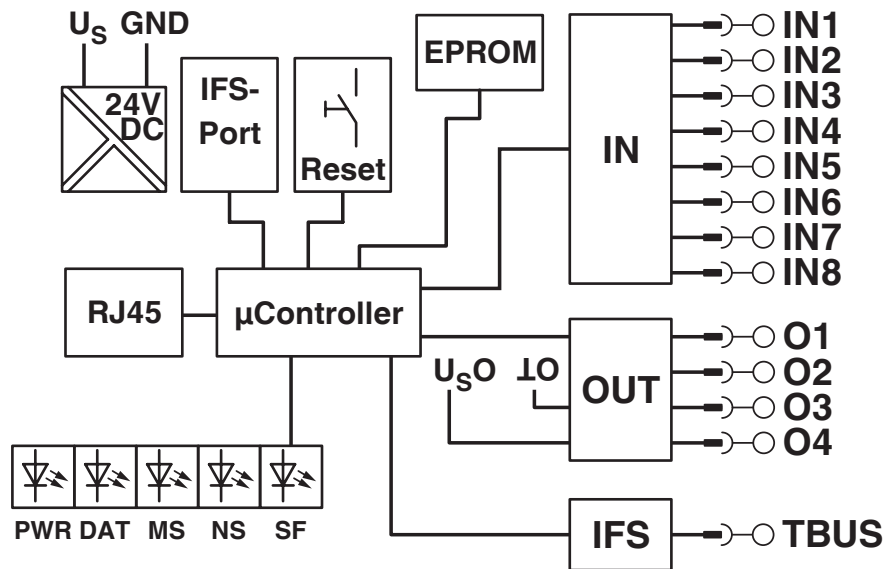
Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2901988

EAC
Approval ID: RU C-DE.A*30.B.01082

UL Listed
Approval ID: FILE E 140324

cUL Listed
Approval ID: FILE E 140324

cULus Listed

Classifications

ECLASS

ECLASS-11.0	27242608
ECLASS-12.0	27242608
ECLASS-13.0	27242608

ETIM

ETIM 9.0	EC001604

UNSPSC

UNSPSC 21.0	32151600

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	43e371fd-458f-417c-a5f0-1e6c94c90ec8

EM-ETH-GATEWAY-IFS - Data interface

Mandatory accessories

IFS-USB-DATACABLE - Data cable

2320500

https://www.phoenixcontact.com/us/products/2320500

Used for communicating between industrial PCs and Phoenix Contact devices with the 12-pos. IFS data port, such as QUINT UPS or TRIO UPS.

Accessories

IFS-CONFSTICK-L - Memory block

2901103

https://www.phoenixcontact.com/us/products/2901103

Multi-functional memory block with handle for the INTERFACE system; for easy storage and back up of the configuration.

EM-ETH-GATEWAY-IFS - Data interface

2901988

https://www.phoenixcontact.com/us/products/2901988

IFS-CONFSTICK - Memory block

2986122

https://www.phoenixcontact.com/us/products/2986122

Multi-functional memory block for the INTERFACE systemf for easy storage and backup of the configuration.

IFS-BT-PROG-ADAPTER - Adapter

2905872

https://www.phoenixcontact.com/us/products/2905872

Bluetooth adapter with micro USB and S-PORT interface for wireless communication with the MINI Analog, MINI Analog Pro, MACX Analog, Interface System Gateways, and PLC logic device series.

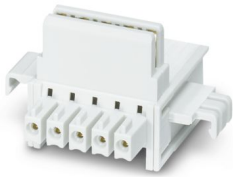# EM-ETH-GATEWAY-IFS - Data interface

ME 22,5 TBUS 1,5/ 5-ST-3,81 GY - DIN rail bus connectors

2201937

https://www.phoenixcontact.com/us/products/2201937

DIN rail connector, color: gray, nominal current: 8 A (parallel contacts), rated voltage (III/2): 125 V, number of positions: 5, product range: TBUS5-22,5.., pitch: 3.81 mm, mounting: DIN rail mounting, locking: without, mounting: without, type of packaging: packed in cardboard, Item with gold-plated contacts, bus connectors for connecting with electronics housings, 5 parallel contacts

US-EMLP (15X5) - Plastic label

0828790

https://www.phoenixcontact.com/us/products/0828790

Plastic label, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, lettering field size: 15 x 5 mm, Number of individual labels: 189

EM-ETH-GATEWAY-IFS - Data interface

2901988

https://www.phoenixcontact.com/us/products/2901988

UC-EMLP (15X5) - Plastic label

0819301

https://www.phoenixcontact.com/us/products/0819301

Plastic label, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: adhesive, lettering field size: 15 x 5 mm, Number of individual labels: 10

EM-D-8/4-24DC-IFS - Extension module

2904473

https://www.phoenixcontact.com/us/products/2904473

For more complex applications with Interface system devices (IFS), the extension module offers digital inputs and outputs for processing additional signals in the field. Easy connection to IFS gateway via the DIN rail connector as the slave.

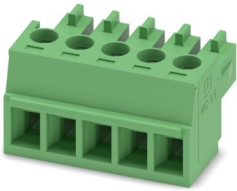# EM-ETH-GATEWAY-IFS - Data interface

2901988

https://www.phoenixcontact.com/us/products/2901988

MC 1,5/ 5-ST-3,81 - PCB connector

1803604

https://www.phoenixcontact.com/us/products/1803604

PCB connector, nominal cross section: 1.5 mm^2, color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Socket, number of potentials: 5, number of rows: 1, number of positions: 5, number of connections: 5, product range: MC 1,5/..-ST, pitch: 3.81 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, plug-in system: COMBICON MC 1,5, locking: without, mounting: without, type of packaging: packed in cardboard

IMC 1,5/ 5-ST-3,81 - PCB connectors

1857919

https://www.phoenixcontact.com/us/products/1857919

PCB connector, nominal cross section: 1.5 mm^2, color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Pin, number of potentials: 5, number of rows: 1, number of positions: 5, number of connections: 5, product range: IMC 1,5/..-ST, pitch: 3.81 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, plug-in system: COMBICON MC 1,5, locking: without, mounting: without, type of packaging: packed in cardboard

EM-ETH-GATEWAY-IFS - Data interface

2901988

https://www.phoenixcontact.com/us/products/2901988

IMC 1,5/ 5-ST-3,81SET IL IFS 2M - Plug

1784729

https://www.phoenixcontact.com/us/products/1784729

Assembled connecting cable, IL-IFS, 2 m in length

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com