2700200

https://www.phoenixcontact.com/au/products/2700200

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Unmanaged Switch 1600 series, 5 M12 ports 10/100 Mbps, degree of protection: IP65/IP66/IP67 , PROFINET Conformance-Class A

Product description

Ethernet interface: The FL SWITCH 1605 M12 has five Ethernet ports on the front in M12 format, to which only CAT5/CAT6 Ethernet cables with Dcoded M12 connectors can be connected. The data transmission speed is 10 Mbps or 100 Mbps. In addition, each port has an autocrossing function at 100 Mbps. It is not necessary to distinguish between 1:1 and crossover Ethernet cables. Switching properties of the FL SWITCH 1605 M12 - Store and Forward: The switch independently learns the addresses for terminal devices, which are connected via a port, by evaluating the source addresses in the data telegrams. Only packets with unknown addresses, with a source address of this port or with a multicast/broadcast address in the destination address field are forwarded via the corresponding port. The switch can store up to 4096 addresses in its address table with an aging time of 40 seconds. This is important if more than one terminal device is connected to one or more ports. In this way, several independent subnets can be connected to one switch. - Multi-address function: The switch independently learns the addresses, with a source address of this port or with a multicast/broadcast address in the data telegrams. Only packets with unknown addresses, which are connected via a port, by evaluating the source addresses in the data telegrams. Only packets with a source address of this port or with a multicast/broadcast address in the destination address field are forwarded via the corresponding port. The switch can store up to 4096 addresses in its address table with an aging time of 40 seconds. This is important if more than one terminal device is connected to one or more ports. In this way, several independent subnets can be connected to one switch. - Quality of Service (QoS) With the aid of the Quality of Service function, the switch can process PROFINET traffic preferentially. To do this, the switch detects the QoS priority from the Ethernet packets and forwards the Ethernet packets with higher priority first.

Your advantages

- Robust IP67 housing
- Easy panel mounting

Commercial data

Item number	2700200
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DNN114
Product key	DNN114
Catalog page	Page 300 (C-6-2019)
GTIN	4046356499781
Weight per piece (including packing)	266.2 g
Weight per piece (excluding packing)	220 g
Customs tariff number	85176200
Country of origin	DE

HŒR

2700200

https://www.phoenixcontact.com/au/products/2700200



Technical data

Dimensions

Dimensional drawing	
Width	30 mm
Height	200 mm
Depth	41 mm
Drill hole spacing	186 mm

Notes

General	NOTE: Meet noise immunity requirements Connect FE using a mounting screw when mounting on a conductive surface. When mounting on a non-conductive surface, FE is connected using the mounting screw via a cable lug.
Note on application	
Note on application	Only for industrial use
aterial specifications	
Color	anthracite
•	anthracite High-grade steel (1.4301/1.4016)

Mounting

Mounting type	Panel mounting
Mounting type	Fanermounting

Interfaces

Ethernet

Connection method	M12, shielded
Note on the connection method	D-coded
Transmission speed	10/100 Mbps
Transmission physics	Twisted pair connection
Transmission length	100 m (per segment)
Signal LEDs	Data receive, link status
No. of channels	5 (M12 ports)

Product properties

Product type	Switch
Product family	Unmanaged Switch 1600
Туре	Stand-Alone



2700200

https://www.phoenixcontact.com/au/products/2700200

MTTF	302.5 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	156.52 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	40.43 Years (SN 29500 standard, temperature 55°C, operating cycle 100%)
nsulation characteristics	
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
Overvoltage category	П
Degree of pollution	2
witch functions	
Basic functions	Unmanaged switch/auto negotiation, complies with standard IEEE 802.3, store-and-forward switching mode, 2 priority classe according to IEEE802.1p, PTCP filter
PROFINET conformance class	Conformance-Class A
Status and diagnostic indicators	LEDs: US (power supply), 2 LEDs per Ethernet port (Link and Activity)
Additional functions	Autonegotiation
ecurity functions	
Basic functions	Unmanaged switch/auto negotiation, complies with standard IEEE 802.3, store-and-forward switching mode, 2 priority classe according to IEEE802.1p, PTCP filter
ctrical properties	IEEE 802.3, store-and-forward switching mode, 2 priority classe
	IEEE 802.3, store-and-forward switching mode, 2 priority classe
ctrical properties	IEEE 802.3, store-and-forward switching mode, 2 priority classe according to IEEE802.1p, PTCP filter
ctrical properties Current consumption	IEEE 802.3, store-and-forward switching mode, 2 priority classe according to IEEE802.1p, PTCP filter 40 mA 80 mA (at 24 V DC)
ctrical properties Current consumption	IEEE 802.3, store-and-forward switching mode, 2 priority classes according to IEEE802.1p, PTCP filter 40 mA 80 mA (at 24 V DC) US Supply voltage US Green LED
ctrical properties Current consumption	IEEE 802.3, store-and-forward switching mode, 2 priority classes according to IEEE802.1p, PTCP filter 40 mA 80 mA (at 24 V DC) US Supply voltage US Green LED X1X5 Link status Green LED
ctrical properties Current consumption Local diagnostics	IEEE 802.3, store-and-forward switching mode, 2 priority classes according to IEEE802.1p, PTCP filter 40 mA 80 mA (at 24 V DC) US Supply voltage US Green LED X1X5 Link status Green LED X1X5 Receiving/sending telegrams Green LED
ctrical properties Current consumption Local diagnostics Maximum power dissipation for nominal condition	IEEE 802.3, store-and-forward switching mode, 2 priority classes according to IEEE802.1p, PTCP filter 40 mA 80 mA (at 24 V DC) US Supply voltage US Green LED X1X5 Link status Green LED X1X5 Receiving/sending telegrams Green LED 0.96 W
ctrical properties Current consumption Local diagnostics Maximum power dissipation for nominal condition	IEEE 802.3, store-and-forward switching mode, 2 priority classes according to IEEE802.1p, PTCP filter 40 mA 80 mA (at 24 V DC) US Supply voltage US Green LED X1X5 Link status Green LED X1X5 Receiving/sending telegrams Green LED 0.96 W 24 V supply / functional ground 500 V DC 1 min
ctrical properties Current consumption Local diagnostics Maximum power dissipation for nominal condition Test section	IEEE 802.3, store-and-forward switching mode, 2 priority classes according to IEEE802.1p, PTCP filter 40 mA 80 mA (at 24 V DC) US Supply voltage US Green LED X1X5 Link status Green LED X1X5 Receiving/sending telegrams Green LED 0.96 W 24 V supply / functional ground 500 V DC 1 min Ethernet interface/all other potentials 2.25 kV DC 1 min
ctrical properties Current consumption Local diagnostics Maximum power dissipation for nominal condition Test section Transmission medium	IEEE 802.3, store-and-forward switching mode, 2 priority classes according to IEEE802.1p, PTCP filter 40 mA 80 mA (at 24 V DC) US Supply voltage US Green LED X1X5 Link status Green LED X1X5 Receiving/sending telegrams Green LED 0.96 W 24 V supply / functional ground 500 V DC 1 min Ethernet interface/all other potentials 2.25 kV DC 1 min
ctrical properties Current consumption Local diagnostics Maximum power dissipation for nominal condition Test section Transmission medium Supply	IEEE 802.3, store-and-forward switching mode, 2 priority classes according to IEEE802.1p, PTCP filter 40 mA 80 mA (at 24 V DC) US Supply voltage US Green LED X1X5 Link status Green LED X1X5 Receiving/sending telegrams Green LED 0.96 W 24 V supply / functional ground 500 V DC 1 min Ethernet interface/all other potentials 2.25 kV DC 1 min Copper
ctrical properties Current consumption Local diagnostics Maximum power dissipation for nominal condition Test section Transmission medium Supply Supply voltage (DC)	IEEE 802.3, store-and-forward switching mode, 2 priority classes according to IEEE802.1p, PTCP filter 40 mA 80 mA (at 24 V DC) US Supply voltage US Green LED X1X5 Link status Green LED X1X5 Receiving/sending telegrams Green LED 0.96 W 24 V supply / functional ground 500 V DC 1 min Ethernet interface/all other potentials 2.25 kV DC 1 min Copper 24 V DC (M12 connector)
ctrical properties Current consumption Local diagnostics Maximum power dissipation for nominal condition Test section Transmission medium Supply Supply voltage (DC) Supply voltage range	IEEE 802.3, store-and-forward switching mode, 2 priority classes according to IEEE802.1p, PTCP filter 40 mA 80 mA (at 24 V DC) US Supply voltage US Green LED X1X5 Link status Green LED X1X5 Receiving/sending telegrams Green LED 0.96 W 24 V supply / functional ground 500 V DC 1 min Ethernet interface/all other potentials 2.25 kV DC 1 min Copper 24 V DC (M12 connector) 9 V DC 32 V DC
ctrical properties Current consumption Local diagnostics Maximum power dissipation for nominal condition Test section Transmission medium Supply voltage (DC) Supply voltage range Power supply connection	IEEE 802.3, store-and-forward switching mode, 2 priority classes according to IEEE802.1p, PTCP filter 40 mA 80 mA (at 24 V DC) US Supply voltage US Green LED X1X5 Link status Green LED X1X5 Receiving/sending telegrams Green LED 0.96 W 24 V supply / functional ground 500 V DC 1 min Ethernet interface/all other potentials 2.25 kV DC 1 min Copper 24 V DC (M12 connector) 9 V DC 32 V DC via M12 connector
ctrical properties Current consumption Local diagnostics Maximum power dissipation for nominal condition Test section Transmission medium Supply Supply voltage (DC) Supply voltage range Power supply connection Residual ripple	IEEE 802.3, store-and-forward switching mode, 2 priority classes according to IEEE802.1p, PTCP filter 40 mA 80 mA (at 24 V DC) US Supply voltage US Green LED X1X5 Link status Green LED X1X5 Receiving/sending telegrams Green LED 0.96 W 24 V supply / functional ground 500 V DC 1 min Ethernet interface/all other potentials 2.25 kV DC 1 min Copper 24 V DC (M12 connector) 9 V DC 32 V DC via M12 connector 3.6 V _{PP}
ctrical properties Current consumption Local diagnostics Maximum power dissipation for nominal condition Test section Transmission medium Supply voltage (DC) Supply voltage range Power supply connection Residual ripple Max. current consumption	IEEE 802.3, store-and-forward switching mode, 2 priority classes according to IEEE802.1p, PTCP filter 40 mA 80 mA (at 24 V DC) US Supply voltage US Green LED X1X5 Link status Green LED X1X5 Receiving/sending telegrams Green LED 0.96 W 24 V supply / functional ground 500 V DC 1 min Ethernet interface/all other potentials 2.25 kV DC 1 min Copper 24 V DC (M12 connector) 9 V DC 32 V DC via M12 connector 3.6 V _{pp} 40 mA (+10 mA per port)
ctrical properties Current consumption Local diagnostics Maximum power dissipation for nominal condition Test section Transmission medium Supply Supply voltage (DC) Supply voltage range Power supply connection Residual ripple Max. current consumption Typical current consumption	IEEE 802.3, store-and-forward switching mode, 2 priority classes according to IEEE802.1p, PTCP filter40 mA 80 mA (at 24 V DC)US Supply voltage US Green LEDX1X5 Link status Green LEDX1X5 Receiving/sending telegrams Green LED0.96 W24 V supply / functional ground 500 V DC 1 minEthernet interface/all other potentials 2.25 kV DC 1 minCopper24 V DC (M12 connector)9 V DC 32 V DCvia M12 connector3.6 V _{PP} 40 mA (at U _S = 24 V DC)

Environmental and real-life conditions



2700200

https://www.phoenixcontact.com/au/products/2700200

Ambient conditions

Degree of protection	IP65
	IP66
	IP67
Ambient temperature (operation)	-40 °C 70 °C
Ambient temperature (storage/transport)	-40 °C 70 °C
Altitude	max. 2000 m (above mean sea level (operation))
Permissible humidity (operation)	10 % 95 %
Permissible humidity (storage/transport)	10 % 95 % (non-condensing)
Air pressure (operation)	86 kPa 108 kPa (2000 m above mean sea level)
Air pressure (storage/transport)	66 kPa 108 kPa (3500 m above sea level)

EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Conformance with EMC directives	Noise emission test in accordance with EN 61000-6- 3/IEC 61000-6-3 EN 61000-6-3 (noise emission) Class B
	EN 55011 (emitted interference) Class B
	EN 55022 (emitted interference) Class B
	EN 61000-4-2 (ESD) Criterion B
	EN 61000-4-3 (electromagnetic fields) Criterion A, 20 V/m
	EN 61000-4-3 (electromagnetic fields) Criterion A, 10 V/m
	EN 61000-4-4 Criterion A, 2.2 kV
	EN 61000-4-5 (surge) Criterion A, interfaces 1 kV
	EN 61000-4-6 (line noise immunity) Criterion A, Field intensity: 10 V/m
	EN 60950-1
Noise immunity	EN 61000-6-2
loise emission	
Standards/regulations	EN 61000-6-4
stem properties	
unctionality	
Basic functions	Unmanaged switch/auto negotiation, complies with standard IEEE 802.3, store-and-forward switching mode, 2 priority classe according to IEEE802.1p, PTCP filter
naling	
Status display	LEDs: US (power supply), 2 LEDs per Ethernet port (Link and Activity)



https://www.phoenixcontact.com/au/products/2700200

Drawings



Dimensional drawing

Top view (dimensions in mm)

Dimensional drawing



Side view (dimensions in mm)

HŒR



2700200

https://www.phoenixcontact.com/au/products/2700200





X1 - X5: Ethernet connection X6: Supply voltage ACT: ACT LEDs LNK: Link LED US: U_{S1} LED



2700200

https://www.phoenixcontact.com/au/products/2700200



Connecting the supply voltage

PIN 1 Us PIN 2 n.c. Pin 3 GND Pin 4 n.c. Pin 5 functional ground



2700200

https://www.phoenixcontact.com/au/products/2700200



Assignment of the LAN socket

Pin 1 Transmit +

Pin 2 Receive +

Pin 3 Transmit -

Pin 4 Receive -



https://www.phoenixcontact.com/au/products/2700200

Approvals

🎨 To download certificates, visit the product detail page: https://www.phoenixcontact.com/au/products/2700200



PHŒNIX

2700200

https://www.phoenixcontact.com/au/products/2700200



Classifications

ECLASS

	ECLASS-13.0	19170402
E٦	ΓIM	
	ETIM 9.0	EC000734
١U	NSPSC	
		40000000
	UNSPSC 21.0	43222600

2700200

https://www.phoenixcontact.com/au/products/2700200

Environmental product compliance

FURAHS

Yes
6(c), 7(a), 7(c)-l
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.
Lead(CAS: 7439-92-1)
47848e5f-3738-4420-8dd5-3bdd7beddecf
20.37 kg CO2e

Phoenix Contact 2025 © - all rights reserved https://www.phoenixcontact.com

PHOENIX CONTACT PTY Ltd Unit 7, 2-8 South Street Rydalmere NSW 2116 1300 786 411 customerservice@phoenixcontact.com.au

