

2700787

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Ethernet Gigabit Modular Switch with eight 10/100/1000 Mbps RJ45 slots and four 1000 Mbps SFP ports, can be extended by an extension station to up to 28 ports, with integrated routing function



Product description

The Gigabit Modular Switch is a high-performance managed switch, which covers the port requirements of industrial applications in a modular and flexible way. It also supports all popular Gigabit and Fast Ethernet transmission standards, IT standard protocols, and the PROFINET and EtherNet/IP™ automation protocols.

For use in the production backbone, the FL SWITCH GHS 12G/8 is the first switch, which has integrated 12 Gigabit ports and also supports the accommodation of interface modules for up to 16 additional 100 Mbps ports. With the integrated Layer 3 license, the switch can be configured as a router. The GHS switch can provide routing in up to 28 different subnetworks. With VRRP (Virtual Redundancy Routing Protocol) it can also be operated as a redundant router.

Your advantages

- · Integrated routing function
- · Connection of Gigabit fiberglass via FL SFP plug-in modules
- Security in the automation network according to IEEE 802.1X
- · Connection of connection media that can be assembled in the field, such as POF, HCS, and GI HCS
- · Quick and easy local configuration options with the new operator/display interface

Commercial data

Item number	2700787
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN17
Product key	DNN123
Catalog page	Page 329 (C-6-2019)
GTIN	4046356647144
Weight per piece (including packing)	2,990 g
Weight per piece (excluding packing)	2,700 g
Customs tariff number	85176200
Country of origin	DE



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Technical data

Dimensions

Width	289 mm
Height	127 mm
Depth	122 mm

Notes

Note on application

Material specifications

Material base plate	Die-cast aluminum, corrosion-resistant
Housing surface material	Stainless steel, smooth, corrosion-resistant

Mounting

Interfaces

Ethernet

Connection method	RJ45
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100/1000 Mbps
Transmission physics	Copper
Transmission length	100 m (per segment)
Signal LEDs	Supply voltage, data transmission, error, link, activity
No. of channels	8 (RJ45 ports)

Ethernet

Connection method	via interface module
Note on the connection method	Max. 4 interface modules (without extension)
Transmission speed	10/100 Mbps (full duplex)
Transmission physics	multi-mode fiberglass
	Single-mode fiberglass
	POF-SCRJ
	GI-HCS fibers
	Copper
	PoE
Signal LEDs	Data receive, link status
No. of channels	2 (Per interface module)

Ethernet (SFP)

Connection method	SFP
Transmission speed	1000 Mbps (full duplex)



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Connection method RS-232-C, 6-pos. MINI-DIN socket (PS/2) Doduct properties Product type Product family Managed Switch GHS Saind-Alone MTTF R8-4 Years (SN 29500 standard, temperature 25°C, operating cycle 21%) 47.9 Years (SN 29500 standard, temperature 25°C, operating cycle 21%) 47.9 Years (SN 29500 standard, temperature 40°C, operating cycle 100%) Insulation characteristics Protection class III (IEC 61140, EN 61140, VDE 0140-1) Switch functions Passic functions Basic functions RMON History N:1-Portmirroring LLDP (Link Layer Discovery Protocol) SNMP-Traps Basic functions Basic functions Source-and-forward switch complies with IEEE 802.3, 8 priority classes according to IEEE 802.19, smart mode, port mirroring, multicast filtering, (IGMP snooping, VLANs, Media Redundancy Protocol (MRP), Carge Tree Support, IEEE 802.18, security, port security, port security, SNMP-3, HTTPS, PROFINET device, GMRP, GVRP, SNTP, 2 digital inputs Signal contact control voltage 24 V (typical) Signal contact control voltage Signal contact control current PROFINET device function PROFINET specification PROFINET specification Version 1.1 Filter functions Management MRP (Media Redundancy Protocol)	Transmission physics	F0
Wavelength 850 nm / 1310 nm / 1550 nm No. of channels 4 (SFP ports) Serial (RS-232) Connection method RS-232-C, 6-pos. MINI-DIN socket (PS/2) Joduct properties Product type Switch Product family Managed Switch GHS Type Sland-Alone MTTF 78.04 Years (SN 29500 standard, temperature 25°C, operating cycle 21%) 47.91 Years (SN 29500 standard, temperature 25°C, operating cycle 34.25%) 13.92 Years (SN 29500 standard, temperature 40°C, operating cycle 100%) Insulation characteristics Protection class III (IEC 61140, EN 61140, VDE 0140-1) Switch functions Diagnostic functions RMON History N:1-Portmirroring LLDP (Link Layer Discovery Protocol) SNIMP-Traps Basic functions Store-and-forward switch comples with IEEE 802.3, 8 priority classes according to IEEE 802.19, smart mode, port mirroring, multicast filtering, IGMP snooping, VLANs, Media Redundarry, Protocol (MRP according to IEEE 802.19, Eaps) Republications, minute and protocol (MRP according to IEEE 802.19, Rapid Spanning Tree (RSTP), Fast Ring Detection (PRO), Large Tree Support, IEEE 802.1X Security ports security, SMIN-3, HTTPS, PROFINET device, (MRP, GVRP, SNTP, 2 digital inputs Signal contact control voltage 24 V (Typical) Signal contact control current 190 mA (maximum) PROFINET conformance class Conformance-Class B PROFINET device function PROFINET device profile for PROFINET device profile for IEEE 802.11 (EC 8	• • •	
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Protection class III (IEC 61140, EN 61140, VDE 0140-1)		13.92 Years (SN 29500 standard, temperature 55°C, operating cycle 100%)
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Signal contact control current PROFINET conformance class Conformance-Class B PROFINET device function PROFINET device function PROFINET specification PROFINET specification Version 1.1 Filter functions Quality of Service (8 priority classes) Port-Priorisierung VLAN (up to 223 VLANs) Management Web-based management (HTTP) SNMPv1/v2/v3 Redundancy MRP (Media Redundancy Protocol)	Basic functions	classes according to IEEE 802.1p, smart mode, port mirroring, multicast filtering, IGMP snooping, VLANs, Media Redundancy Protocol (MRP according to IEC 62439), Rapid Spanning Tree (RSTP), Fast Ring Detection (FRD), Large Tree Support, IEEE 802.1X security, port security, SNMPv3, HTTPS, PROFINET
PROFINET conformance class PROFINET device function PROFINET device PROFINET device PROFINET specification PROFINET specification PROFINET specification Version 1.1 Filter functions Quality of Service (8 priority classes) Port-Priorisierung VLAN (up to 223 VLANs) Management Web-based management (HTTP) SNMPv1/v2/v3 Redundancy MRP (Media Redundancy Protocol)	Signal contact control voltage	24 V (typical)
PROFINET device function PROFINET device PROFINET specification PROFINET specification PROFINET specification Version 1.1 Filter functions Quality of Service (8 priority classes) Port-Priorisierung VLAN (up to 223 VLANs) Management Web-based management (HTTP) SNMPv1/v2/v3 Redundancy MRP (Media Redundancy Protocol)	Signal contact control current	190 mA (maximum)
PROFINET specification PROFINET specification Version 1.1 Filter functions Quality of Service (8 priority classes) Port-Priorisierung VLAN (up to 223 VLANs) Management Web-based management (HTTP) SNMPv1/v2/v3 Redundancy MRP (Media Redundancy Protocol)	PROFINET conformance class	Conformance-Class B
Fast Startup PROFINET specification Filter functions Quality of Service (8 priority classes) Port-Priorisierung VLAN (up to 223 VLANs) Management Web-based management (HTTP) SNMPv1/v2/v3 Redundancy MRP (Media Redundancy Protocol)	PROFINET device function	PROFINET device
PROFINET specification Filter functions Quality of Service (8 priority classes) Port-Priorisierung VLAN (up to 223 VLANs) Management Web-based management (HTTP) SNMPv1/v2/v3 Redundancy MRP (Media Redundancy Protocol)		PROFlenergy
Filter functions Quality of Service (8 priority classes) Port-Priorisierung VLAN (up to 223 VLANs) Web-based management (HTTP) SNMPv1/v2/v3 Redundancy MRP (Media Redundancy Protocol)		Fast Startup
Port-Priorisierung VLAN (up to 223 VLANs) Management Web-based management (HTTP) SNMPv1/v2/v3 Redundancy MRP (Media Redundancy Protocol)	PROFINET specification	Version 1.1
Port-Priorisierung VLAN (up to 223 VLANs) Management Web-based management (HTTP) SNMPv1/v2/v3 Redundancy MRP (Media Redundancy Protocol)		Quality of Service (8 priority classes)
VLAN (up to 223 VLANs) Management Web-based management (HTTP) SNMPv1/v2/v3 Redundancy MRP (Media Redundancy Protocol)	THE TURNOUS	
Management Web-based management (HTTP) SNMPv1/v2/v3 Redundancy MRP (Media Redundancy Protocol)		
SNMPv1/v2/v3 Redundancy MRP (Media Redundancy Protocol)	Management	
Redundancy MRP (Media Redundancy Protocol)	0-	
·	Redundancy	
	Neuullualicy	RSTP (Rapid Spanning Tree Protocol)



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	FRD (Fast Ring Detection)
	Large Tree Support
	STP (Spanning Tree Protocol)
	MSTP (Multiple Spanning Tree Protocol)
Status and diagnostic indicators	LEDs: US1, US2 (power supply), Fail (alarm contact), 2 LEDs pe Ethernet port (Link and switchable Activity/Speed/Duplex), DI1, DI2 (Digital Input), UI (supply voltage for ext. sensor), and large operator display (display of IP address and other parameters)
Supported browsers	Internet Explorer 5.5 or higher
Additional functions	DHCP Option 82 (Relay Agent)
	Link aggregation (up to 8 trunks)
	BootP
	DHCP-Client
	MAC-based Port-Security
	Jumbo frames
ecurity functions	
Basic functions	Store-and-forward switch complies with IEEE 802.3, 8 priority classes according to IEEE 802.1p, smart mode, port mirroring, multicast filtering, IGMP snooping, VLANs, Media Redundancy Protocol (MRP according to IEC 62439), Rapid Spanning Tree (RSTP), Fast Ring Detection (FRD), Large Tree Support, IEEE 802.1X security, port security, SNMPv3, HTTPS, PROFINET device, GMRP, GVRP, SNTP, 2 digital inputs
ctrical properties	
ctrical properties Power consumption	typ. 19 W (without plugged-in interface modules)
	typ. 19 W (without plugged-in interface modules) US1/2 Supply voltage US1, US2 Green LED
Power consumption	
Power consumption	US1/2 Supply voltage US1, US2 Green LED
Power consumption	US1/2 Supply voltage US1, US2 Green LED FAIL Div. LED red
Power consumption	US1/2 Supply voltage US1, US2 Green LED FAIL Div. LED red LINK Link status Green LED
Power consumption	US1/2 Supply voltage US1, US2 Green LED FAIL Div. LED red LINK Link status Green LED MODE Data transmission speed Green LED
Power consumption Local diagnostics	US1/2 Supply voltage US1, US2 Green LED FAIL Div. LED red LINK Link status Green LED MODE Data transmission speed Green LED MODE Data transmission speed Green/orange LED
Power consumption Local diagnostics Maximum power dissipation for nominal condition	US1/2 Supply voltage US1, US2 Green LED FAIL Div. LED red LINK Link status Green LED MODE Data transmission speed Green LED MODE Data transmission speed Green/orange LED 19.2 W
Power consumption Local diagnostics Maximum power dissipation for nominal condition	US1/2 Supply voltage US1, US2 Green LED FAIL Div. LED red LINK Link status Green LED MODE Data transmission speed Green LED MODE Data transmission speed Green/orange LED 19.2 W Copper
Power consumption Local diagnostics Maximum power dissipation for nominal condition Transmission medium	US1/2 Supply voltage US1, US2 Green LED FAIL Div. LED red LINK Link status Green LED MODE Data transmission speed Green LED MODE Data transmission speed Green/orange LED 19.2 W Copper
Power consumption Local diagnostics Maximum power dissipation for nominal condition Transmission medium	US1/2 Supply voltage US1, US2 Green LED FAIL Div. LED red LINK Link status Green LED MODE Data transmission speed Green LED MODE Data transmission speed Green/orange LED 19.2 W Copper FO
Power consumption Local diagnostics Maximum power dissipation for nominal condition Transmission medium upply Supply voltage (DC)	US1/2 Supply voltage US1, US2 Green LED FAIL Div. LED red LINK Link status Green LED MODE Data transmission speed Green LED MODE Data transmission speed Green/orange LED 19.2 W Copper FO 24 V DC (redundant)
Power consumption Local diagnostics Maximum power dissipation for nominal condition Transmission medium upply Supply voltage (DC) Supply voltage range	US1/2 Supply voltage US1, US2 Green LED FAIL Div. LED red LINK Link status Green LED MODE Data transmission speed Green LED MODE Data transmission speed Green/orange LED 19.2 W Copper FO 24 V DC (redundant) 18.5 V DC 30.2 V DC
Power consumption Local diagnostics Maximum power dissipation for nominal condition Transmission medium upply Supply voltage (DC) Supply voltage range Power supply connection	US1/2 Supply voltage US1, US2 Green LED FAIL Div. LED red LINK Link status Green LED MODE Data transmission speed Green LED MODE Data transmission speed Green/orange LED 19.2 W Copper FO 24 V DC (redundant) 18.5 V DC 30.2 V DC Via COMBICON, max. conductor cross section 2.5 mm²
Power consumption Local diagnostics Maximum power dissipation for nominal condition Transmission medium upply Supply voltage (DC) Supply voltage range Power supply connection Residual ripple	US1/2 Supply voltage US1, US2 Green LED FAIL Div. LED red LINK Link status Green LED MODE Data transmission speed Green LED MODE Data transmission speed Green/orange LED 19.2 W Copper FO 24 V DC (redundant) 18.5 V DC 30.2 V DC Via COMBICON, max. conductor cross section 2.5 mm² 3.6 V _{PP} (within the permitted voltage range)
Power consumption Local diagnostics Maximum power dissipation for nominal condition Transmission medium upply Supply voltage (DC) Supply voltage range Power supply connection Residual ripple Max. current consumption	US1/2 Supply voltage US1, US2 Green LED FAIL Div. LED red LINK Link status Green LED MODE Data transmission speed Green LED MODE Data transmission speed Green/orange LED 19.2 W Copper FO 24 V DC (redundant) 18.5 V DC 30.2 V DC Via COMBICON, max. conductor cross section 2.5 mm² 3.6 V _{PP} (within the permitted voltage range) 2.7 A
Power consumption Local diagnostics Maximum power dissipation for nominal condition Transmission medium upply Supply voltage (DC) Supply voltage range Power supply connection Residual ripple Max. current consumption Typical current consumption	US1/2 Supply voltage US1, US2 Green LED FAIL Div. LED red LINK Link status Green LED MODE Data transmission speed Green LED MODE Data transmission speed Green/orange LED 19.2 W Copper FO 24 V DC (redundant) 18.5 V DC 30.2 V DC Via COMBICON, max. conductor cross section 2.5 mm² 3.6 V _{PP} (within the permitted voltage range) 2.7 A



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Connection data

Connection method	Screw connection
Conductor cross section, rigid	0.2 mm² 2.5 mm²
Conductor cross section, flexible	0.2 mm² 2.5 mm²
Conductor cross section AWG	24 12
Stripping length	7 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C 55 °C (non-condensing)
Ambient temperature (storage/transport)	-20 °C 70 °C
Permissible humidity (operation)	10 % 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % 95 % (non-condensing)
Vibration (operation)	in acc. with IEC 60068-2-6: 5g, 150 Hz
Air pressure (operation)	80 kPa 108 kPa (2000 m above mean sea level)
Air pressure (storage/transport)	66 kPa 108 kPa (3500 m above sea level)

Standards and regulations

Free from substances that could impair the application of coating	In acc. with VW specification
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EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Conformance with EMC directives	IEC 61000-4-2 (ESD) Criterion B, Class 3
	IEC 61000-4-3 (immunity to radiated interference) Criterion A, 10 V/m
	IEC 61000-4-4 (burst) Criterion A, 1 kV
	IEC 61000-4-5 (surge) Criterion B
	IEC 61000-4-6 (immunity to conducted interference) Criterion A, 10 Vrms
	EN 55022 (emitted interference) Class A
Noise immunity	EN 61000-6-2:2005
Noise emission	EN 61000-6-3/-4

System properties

Functionality

Basic functions	Store-and-forward switch complies with IEEE 802.3, 8 priority classes according to IEEE 802.1p, smart mode, port mirroring, multicast filtering, IGMP snooping, VLANs, Media Redundancy Protocol (MRP according to IEC 62439), Rapid Spanning Tree (RSTP), Fast Ring Detection (FRD), Large Tree Support, IEEE 802.1X security, port security, SNMPv3, HTTPS, PROFINET device, GMRP, GVRP, SNTP, 2 digital inputs
System requirements	



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	Supported browsers	Internet Explorer 5.5 or higher
Sig	gnaling	
	Status display	LEDs: US1, US2 (power supply), Fail (alarm contact), 2 LEDs per Ethernet port (Link and switchable Activity/Speed/Duplex), DI1, DI2 (Digital Input), UI (supply voltage for ext. sensor), and large operator display (display of IP address and other parameters)



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2700787



UL Listed

Approval ID: E140324



cUL ListedApproval ID: E140324

cULus Listed



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Classifications

UNSPSC 21.0

ECLASS

19170401			
19170401			
19170401			
ETIM			
EC000734			

43222600



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-l
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	3635ad76-5ad6-4e73-93a0-8737aeb66499

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