

Switch - FL SWITCH GHS 12G/8 - 2989200

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Ethernet Gigabit Modular Switch with eight 10/100/1000 Mbps RJ45 ports and four 1000 Mbps SFP ports, can be extended by up to 28 ports

Gigabit Modular Switch with 12 integrated Gigabit ports, modules can be added to extend to up to 28 Ethernet ports

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 with 12 integrated Gigabit ports and which also allows interface modules for up to 16 more 100 Mbps ports to be fitted.

Product Features

- 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
- Security in the automation network according to IEEE 802.1X
- Connection of Gigabit fiberglass via FL SFP plug-in modules
- Optional Layer 3 functions (static routing) can be activated



Key commercial data

package_quantity	1
GTIN	4046356435376

Technical data

Note:

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	287 mm
Height	125 mm
Depth	115 mm

Ambient conditions

Degree of protection	IP20
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Ambient conditions

Ambient temperature (operation)	-20 °C ... 55 °C (no condensation)
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Permissible humidity (operation)	10 % ... 95 % (no condensation)
Permissible humidity (storage/transport)	10 % ... 95 % (no condensation)
Air pressure (operation)	80 kPa ... 108 kPa (2000 above sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (3500 m above sea level)
Noise immunity	EN 61000-6-2:2005

SFP interface

Interface	Ethernet (SFP)
No. of ports	4 (SFP ports)
Transmission speed	1000 MBit/s (full duplex)
Transmission physics	FO

Copper interface

Interface	Ethernet (RJ45)
No. of ports	8
Transmission speed	10/100/1000 MBit/s
Connection method	RJ45
Note on connection method	Auto negotiation and autocrossing
Transmission physics	Copper

Interface expansion

Interface	Ethernet
No. of ports	2 (Per interface module)
Connection method	via interface module
Note on connection method	Max. 4 interface modules (without extension)
Transmission speed	10/100 MBit/s (full duplex)
Transmission physics	Multimode fiberglass
Transmission physics	Single mode fiberglass
Transmission physics	POF-SCRJ
Transmission physics	GI-HCS fibers
Transmission physics	Copper
Transmission physics	PoE

Function

Basic functions	Store-and-forward switch, smart mode, port mirroring, multicast filtering, IGMP snooping, VLAN, 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, PROFINET IO device, GMRP, GVRP, SNTP, 2 digital inputs
Management	Integrated management agent, SNMP protocol (private MIB, MIB-2, RMON MIB, Bridge MIB), integrated Web server function, CLI, serial access
Supported browsers	Internet Explorer 5.5 or higher

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Function

Redundancy	Spanning Tree 802.1d, Rapid Spanning Tree 802.1w, Fast Ring Detection, Media Redundancy Protocol (MRP) as per IEC 62439
Status and diagnostic indicators	Large operator display (contains IP address and other parameters), 2 status LEDs per Ethernet port: LINK and selection of Status Activity, 100, full duplex, supply voltage U_{S1} and U_{S2} (redundant supply voltage), and FAIL

Network expansion parameters

Cascading depth	Network, linear, and star structure: any
Maximum conductor length ((twisted pair)	100 m

Supply voltage

Supply voltage	24 V DC
Residual ripple	3.6 V _{pp} (within the permitted voltage range)
Supply voltage range	18.5 V DC ... 30.2 V DC
Typical current consumption	800 mA (Up to 2.7 A, depends on the configuration)
Max. current consumption	2.7 A

Mechanical tests

Type of test	Shock in acc. with EN 60068-2-27/IEC 60068-2-27
Test result	Operation: 25 g, 11 ms duration, semi-sinusoidal shock impulse
Type of test	Shock in acc. with EN 60068-2-27/IEC 60068-2-27
Test result	Storage/Transport: 50 g, 11 ms duration, semi-sinusoidal shock impulse
Type of test	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6
Test result	Operation/Storage/Transport: 5 g, 150 Hz, Criterion 3
Type of test	Free fall in acc. with IEC 60068-2-32
Test result	1 m

Conformity with EMC directives

Test standard	IEC 61000-4-2 (ESD)
Test standard	IEC 61000-4-3 (immunity to radiated interference)
Test result	Criterion A, 10 V/m
Test standard	IEC 61000-4-4 (burst)
Test standard	IEC 61000-4-5 (surge)
Test result	Criterion B
Test standard	IEC 61000-4-6 (immunity to conducted interference)
Test standard	EN 55022 (emitted interference)
Test result	Class A

General

Mounting type	DIN rail
Type AX	Stand-alone
Weight	2700 g
Material base plate	Die-cast aluminum, corrosion-resistant
Noise emission	EN 61000-6-3/-4

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Technical data

classifications

eCl@ss

eCl@ss 4.0	24010504
eCl@ss 4.1	24010504
eCl@ss 5.0	19030117
eCl@ss 5.1	19030117
eCl@ss 6.0	19170106
eCl@ss 7.0	19170106
eCl@ss 8.0	19170106

ETIM

ETIM 3.0	EC000734
ETIM 4.0	EC000734
ETIM 5.0	EC000734

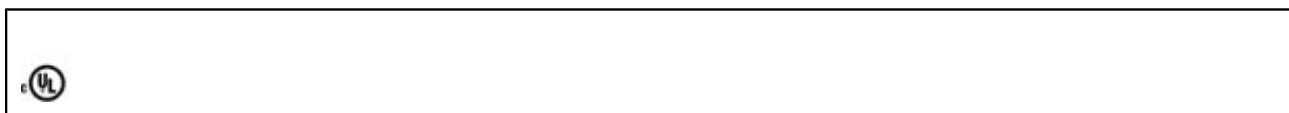
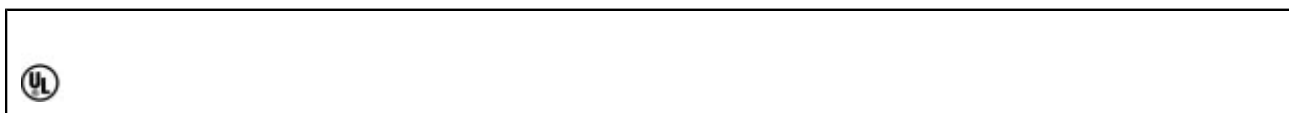
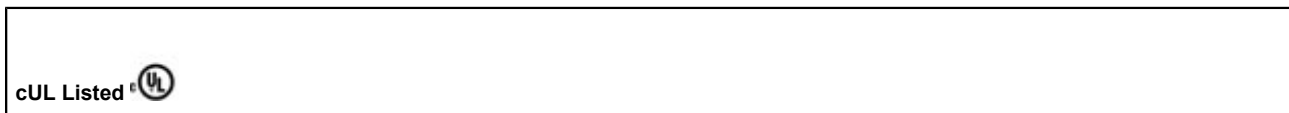
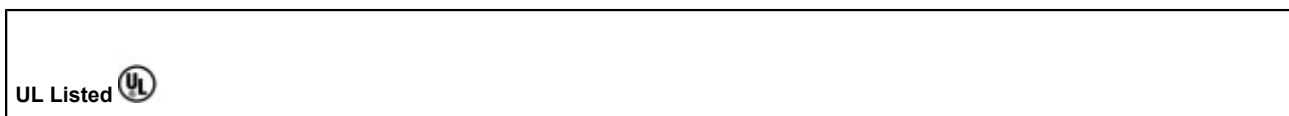
UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201410
UNSPSC 13.2	43201410

approvals

UL Listed / cUL Listed / UL Listed / cUL Listed / PROFInergy / PROFInergy / PROFINET / PROFINET / cULus Listed /

Approval details




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approvals

PROFenergy

PROFINET

cULus Listed 

accessories

Extension module

FL FXT - 2989307



FL IF 2TX VS-RJ-F - 2832344



FL IF 2TX VS-RJ-D - 2832357



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accessories

FL IF 2FX SC-F - 2832412



FL IF 2FX SC-D - 2832425



FL IF 2FX SM SC-D - 2832205



FL IF 2FX ST-D - 2884033



FL IF 2POF SCRJ-D - 2891084



FL IF 2PSE-F - 2832904



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accessories

SFP module

FL SFP SX - 2891754



FL SFP LX - 2891767



FL SFP LH - 2989912



Configuration memory

FL SD FLASH/L3/MRM - 2700607



FL SD FLASH/MRM - 2700270



Parameterization memory

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accessories

SD FLASH 256MB - 2988120



Data cable preassembled

FL MM PATCH 1,0 LC-LC - 2989158



FL MM PATCH 2,0 LC-LC - 2989255



FL MM PATCH 5,0 LC-LC - 2901799



FL MM PATCH 1,0 LC-SC - 2989161



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accessories

FL MM PATCH 2,0 LC-SC - 2989268



FL MM PATCH 2,0 LC-SC - 2989268



FL MM PATCH 1,0 LC-ST - 2989174



FL MM PATCH 2,0 LC-ST - 2989271



FL MM PATCH 5,0 LC-ST - 2901801



FL MM PATCH 1,0 LC-SCRJ - 2901802



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accessories

FL MM PATCH 2,0 LC-SCRJ - 2901803



FL MM PATCH 5,0 LC-SCRJ - 2901804



FL MM PATCH 1,0 SC-SC - 2901805



FL MM PATCH 1,0 SC-SC - 2901805



FL MM PATCH 5,0 SC-SC - 2901808



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FL MM PATCH 1,0 SC-ST - 2901809



FL MM PATCH 2,0 SC-ST - 2901810



FL MM PATCH 5,0 SC-ST - 2901811



FL MM PATCH 1,0 SC-SCRJ - 2901812



FL MM PATCH 2,0 SC-SCRJ - 2901813



FL MM PATCH 2,0 SC-SCRJ - 2901813



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accessories

FL MM PATCH 1,0 ST-ST - 2901815



FL MM PATCH 2,0 ST-ST - 2901816



FL MM PATCH 5,0 ST-ST - 2901817



FL MM PATCH 1,0 ST-SCRJ - 2901820



FL MM PATCH 2,0 ST-SCRJ - 2901821



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accessories

FL MM PATCH 5,0 ST-SCRJ - 2901822



FL SM PATCH 1,0 LC-LC - 2989187



FL SM PATCH 2,0 LC-LC - 2989284



FL SM PATCH 5,0 LC-LC - 2901826



FL SM PATCH 1,0 LC-SC - 2989190



FL SM PATCH 2,0 LC-SC - 2989297



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FL SM PATCH 5,0 LC-SC - 2901827



FL SM PATCH 1,0 LC-ST - 2989242



FL SM PATCH 2,0 LC-ST - 2989349



FL SM PATCH 5,0 LC-ST - 2901828



FL SM PATCH 1,0 SC-SC - 2901829



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FL SM PATCH 2,0 SC-SC - 2901830



FL SM PATCH 5,0 SC-SC - 2901831



FL SM PATCH 1,0 SC-ST - 2901832



FL SM PATCH 2,0 SC-ST - 2901833



FL SM PATCH 5,0 SC-ST - 2901834



FL SM PATCH 1,0 ST-ST - 2901836



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accessories

FL SM PATCH 1,0 ST-ST - 2901836



FL SM PATCH 5,0 ST-ST - 2901838



FOC-GDM-RUGGED-1016/IP20/... - 2901558



FOC-GDM-RUGGED-1016/... - 1402193



FOC-GDO-1017/IP20/... - 2901559



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accessories

FOC-GDO-1017/... - 1402194



FOC-PN-HCS-GI-1005/IP20/... - 2901554



FOC-PN-HCS-GI-1005/... - 1402189



Data cable by the meter

PSM-LWL-GDM-RUGGED- 50/125 - 2799322



PSM-LWL-GDO- 50/125 - 2799432



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accessories

FL FOC PN-C-HCS-GI-200/230 - 2313410



accessories

IPASSIGN - 2701094



Drawings

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