Xelity PROFINET Managed Switch 10x 10/100/1000BT IP67 M12L 4P

Art.No.: 58845
Weight: 0,916 kg
Country of origin: DE
Model designation: Xelity 10 TX IP67 M GE PN 4P

Murrelektronik's Xelity product family brings managed switching directly into the field: rugged, IP67-rated, and mountable without a control cabinet.

Available with 10 M12 ports in three performance classes —100 Mbit/s (D-coded), 1 Gbit/s (X-coded), or a hybrid combination —, and offered as a PROFINET switch, EtherNet/IP switch, or a pure managed switch.

Network expansion is achieved via plug-and-play with low power consumption.

Management functions are available via web server, SNMP, and REST API, including MRP, RSTP, VLAN 802.1Q, QoS, and a 1:1 NAT function.

For diagnostics, a cable tester with fault localization, a topology viewer, and detailed port statistics are integrated.

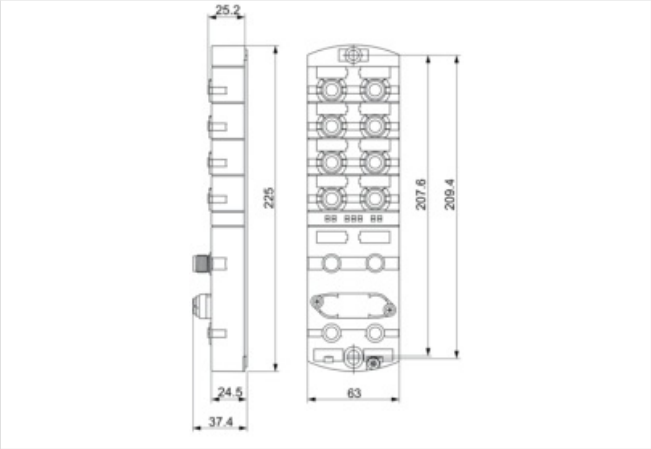
Security features such as Port Security, IEEE 802.1X, and RADIUS, along with an OpenVPN client for remote maintenance, round out the functional scope.

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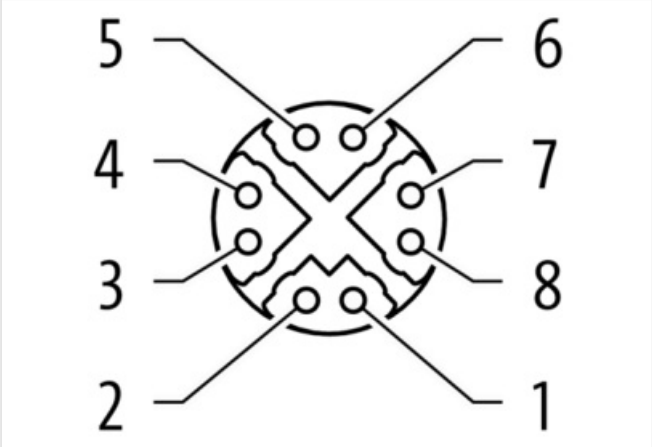
Link to Product

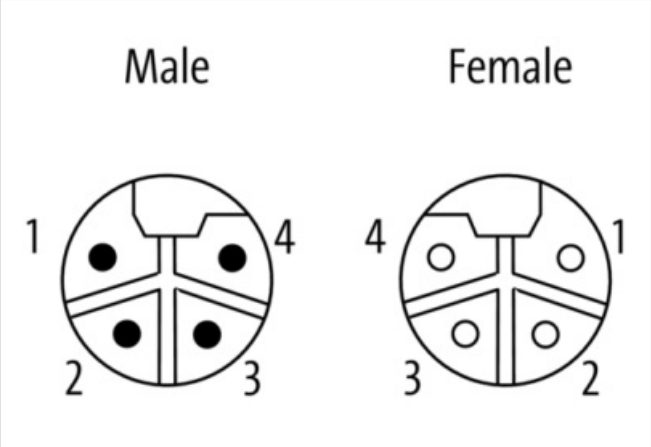
Illustration





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Product may differ from Image

Commercial data	
URL Webshop	https://shop.murrelektronik.com/58845
GTIN	4048879866606
EU-Customs tariff number	85176200
US-Customs tariff number	8517620090
ECLASS-6.1	19170106
ECLASS-7.0	19170106
ECLASS-7.1	19170106
ECLASS-8.0	19170106
ECLASS-8.1	19170106
ECLASS-9.0	19170106
ECLASS-9.1	19170106
ECLASS-10.0.1	19170401
ECLASS-10.1	19170401
ECLASS-11.0	19170401
ECLASS-11.1	19170401
ECLASS-12.0	19170401
ECLASS-13.0	19170401
ECLASS-14.0	19170401
ETIM-9.0	EC000734
ETIM-10.0	EC000734
customs tariff number	85176200
EAN	4048879866606
Packaging unit	1

Electrical data | Supply	
Protective measure	SELV/PELV
Operating voltage type	DC
Operating voltage US DC	12 V / 24 V
Operating voltage range US DC	9 V … 30 V
Operating voltage range UA DC	9 V … 30 V
Idle current max.	170 mA
Current consumption max.	650 mA
Power consumption max.	6 W

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Actuator current UA	max. 16 A
Electrical data | Input	
Sensor current US per input max.	16 A
Industrial Communication	
Number of HW interfaces (Industrial Ethernet)	10
Industrial communication | Bus data	
Supported protocol	PROFINET
Industrial communication | Ethernet/IP	
Addressing	DHCP
CIP Sync	Yes
Device Level Ring (DLR)	No
Shared device/input	No
Cycle time	min. 100 ms
Industrial communication | Ethernet functionality	
Switch type	managed
Switching procedure	Store & forward
duplex	Full or half duplex
Auto-negotiation	Yes
Auto-crossover	Yes
Auto-polarity	Yes
Auto-Sensing	Yes
Energy-efficient Ethernet (IEEE 802.3az)	Yes
Topology	ring, net, line, star
Line topology cascading max.	64
Ring topology	MRP, RSTP
Net topology	RSTP
Industrial communication | PROFINET	
Conformance Class	B
addressing	DCP
PROFIenergy	No
Netload Class	III
Specification	V2.4
Cycle time min.	128 ms
IRT-network communication	No
IRT-application	No
MRP client	Yes
Fast-Start-Up (FSU)	No
Shared device/input	No
MRP instances port-dependent	max. 5
Industrial communication | IIoT functions	
Webserver	HTTP, HTTPS
Remote maintenance	Open VPN client
Industrial communication | Security	
Webserver	HTTPS certificate management, Password change at first login (FPC), Local user administration, TLS V1.2 and higher
Access control	RADIUS-Server, Network Access Control (NAC 802.1X)
Switch Management	
IP preset	0.0.0.0/24
Priorization type (IEEE 802.1D, IEEE 802.1p)	DSCP, CoS, (Mapping CoS/DSCP)
NAT	1:1
VLAN managed (IEEE 802.1Q)	Yes

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VLANs max. (IEEE 802.1Q)	64
MRP (IEC 62439-2)	Manager, Client
RSTP (IEEE 802.1D-2004, IEC 62439-1)	Default off
Simple Network Management Protocol (SNMP)	v1 + v2c + v3 (default active)
AutoUpdateX compatible	≥V3.6
Time synchronization	NTP client, NTP-Server, Real-time clock, PTP
Addressing	SSHv2 command line, DCP, BOOTP/DHCP client, MIB-Support, Web based management
Configuration file management	Micro SD, HTTP, Webserver, FTP, TFTP, SFTP
Diagnostics	
Alarm contact	No
LED display	Ethernet connection/data traffic, Fieldbus status, Device state, power supply
System information	Overload indicator, device temperature, Device information, Input voltage
RMON	Yes
Network information	MAC notifications, Neighborhood detection (LLDP, IEEE 802.1AB)
Port mirroring	1:1
Syslog	Yes
SNMP traps	Yes
Device protection | Electrical	
Installation height max. ASL	3000 m
Degree of protection (EN IEC 60529)	IP67, IP65
Protection class (EN IEC 61140)	III
Additional condition protection class	Power supply must comply with SELV or PELV
Additional condition overload protection	Circuit Breakers 9 A
Invers-polarity protection	Yes
Pollution Degree	2
Over voltage protection	No
Overload protection device supply	Yes
Protective circuitry input	Internal, Suppressor diode
Overvoltage category (EN 60664-1)	I
Device protection | Mechanical	
Free fall (EN 61131-2)	0.3 m
Shock resistance (EN IEC 60068-2-27)	30 g 11 ms 6 x (X-, Y-, Z-axis)
Vibration resistance (EN IEC 60068-2-6)	3,5 mm (3 ... 27 Hz), 10 g (27 … 150 Hz), XYZ-Axis
Mechanical data | Material data	
housing	Zinc die-casting
Mechanical data | Mounting data	
Net weight	916 g
Height	225 mm
Width	63 mm
Depth	37.4 mm
Mounting method	screwed
Suitable for mounting type	2-hole screw mounting
Environmental characteristics | Electromagnetic compatibility	
Interference emission	EN IEC 61000-6-3
Immunity to interference	EN IEC 61000-6-1, EN IEC 61000-6-2
Environmental characteristics | Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	45 °C
Ambient temperature (operation)	-40 °C … 60 °C
Derating	min. 45 °C
Ambient temperature (storage, transport)	-40 °C … 85 °C

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Relative humidity (operation)	5 % … 95 %
Relative humidity (storage, transport)	max. 95 %
Assembly location	Interior
Technical Data | Reliability	
MTTF (EN/IEC 61709, EN ISO 13849-1, SN 29500)	96 a @ 40 °C
Environmental product conformity	
REACH ((EC) 1907/2006)	compliant
REACH SVHC ((EC) 1907/2006)	Lead (Pb) CAS 7439-92-1, Triphenyl... CAS 115-86-6
RoHS (2011/65/EU, (EU) 2015/863)	compliant
RoHS-Exemption (2011/65/EU)	6(c), 7(a), 7(c)-I
China RoHS (SJ/T 11364, GB/T 26572)	EFUP-25
California Proposition 65	Nickel (Ni) CAS 7440-02-0
WEEE (2012/19/EU)	Category 6
Halogen content	not halogen-free
Lead-free	No
Date of evaluation	2021-02
Conformity	
Product standard	EN/IEC 61010-1, EN IEC 61010-2-201
CE	2014/30/EU, 2011/65/EU
UKCA	The Electromagnetic Compatibility Regulations 2016, The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012
Approvals	
UL Listed (US, CA)	E201820
Connection type 3-3	
Connection type 1	XD1
Connection type 2	XD2
Connection type 3	XF1-XF10
Family construction form	M12
No. of poles	5
Coding	L
Gender	male
Color contact carrier	black
PIN 1	24 V DC (UB 1) (US)
PIN 2	0 V (UA)
PIN 3	0 V (UB 1) (US)
PIN 4	24 V DC (UA)
PIN 5	n.c.
Family construction form	M12
No. of poles	4
Coding	L
Gender	female
Color contact carrier	black
PIN 1	24 V DC (UB 1) (US)
PIN 2	0 V (UA)
PIN 3	0 V (UB 1) (US)
PIN 4	24 V DC (UA)
Family construction form	M12
No. of poles	8
Coding	X
Gender	female
Color contact carrier	green
PIN 1	DA +

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PIN 2	DA -
PIN 3	DB +
PIN 4	DB -
PIN 5	DD +
PIN 6	DD -
PIN 7	DC -
PIN 8	DC +

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