Xelity 6TX PROFINET Managed Switch with 1000Mbit

+ 4 Power M12 IP67 M12L 5-pole

Art.No.: 58857
Weight: 0,904 kg
Country of origin: DE
Model designation: Xelity 6TX 4PW IP67 M GE PN 5P

Xelity Hybrid Switches are the ideal solution for connecting up to four cameras and other network devices (under 100 W output power) via standardized M12 A-coded connectors for power supply and M12 X-coded connectors for Ethernet data connectivity.

Thanks to NEC Class 2 protection on the power outputs and the integrated Mico overcurrent protection, both the connected devices and the cabling are reliably safeguarded.

The proven IP67 housing concept allows the switches to integrate seamlessly into decentralized installation architectures.

The devices are used in intralogistics, machine vision, and anywhere else Ethernet cameras are deployed.

A wide range of management functions is 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.

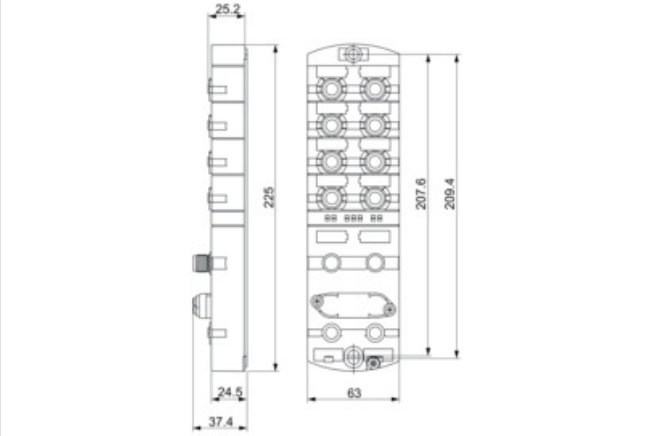
Security features such as Port Security, IEEE 802.1X, and RADIUS, along with an OpenVPN client for remote maintenance, round out the functional scope.

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Link to Product

Illustration





Product may differ from Image

Commercial data

URL Webshop	https://shop.murrelektronik.com/58857
GTIN	4065909055441
EU-Customs tariff number	85176200

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US-Customs tariff number	8517620090
ECLASS-6.0	19170106
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-5.0	EC000734
ETIM-6.0	EC000734
ETIM-7.0	EC000734
ETIM-8.0	EC000734
ETIM-9.0	EC000734
ETIM-10.0	EC000734
customs tariff number	85176200
EAN	4065909055441
Packaging unit	1
Electrical data | Supply	
Protective measure	SELV/PELV
Operating voltage type	DC
Operating voltage US DC	24 V
Operating voltage range US DC	18 V … 30 V
Total current US max.	16 A
Operating voltage range UA DC	30 V
Idle current max.	80 mA
Current consumption max.	138 mA
Power consumption max.	3.8 W
Actuator current UA	max. 16 A
Electrical data | Output	
Type Output	NEC Class 2
Output voltage DC	24 V
Output voltage DC min.	18 V
Output voltage DC max.	30 V
Actuator current UA per output max.	16000 A
Tripping current tolerance	min. 0 % … max. 9 %
Switch-on capacity max.	10 mF
Switching elements	Semiconductor switch
Efficiency at load	99.4 % @ 50 %
Industrial Communication	
Number of HW interfaces (Industrial Ethernet)	6
Industrial communication | Bus data	
Supported protocol	Ethernet, PROFINET
Industrial communication | Ethernet/IP	
Addressing	DHCP

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CIP Sync	Yes
Device Level Ring (DLR)	No
Shared device/input	No
Cycle time	min. 128 ms
Industrial communication | Ethernet functionality	
Transmission type (Port 1)	1 GBASE-T, 100 BASE-T(X), 10 BASE-T
Transmission type (Port 2)	1 GBASE-T, 100 BASE-T(X), 10 BASE-T
Transmission type (Port 3)	1 GBASE-T, 100 BASE-T(X), 10 BASE-T
Transmission type (Port 4)	1 GBASE-T, 100 BASE-T(X), 10 BASE-T
Transmission type (Port 5)	1 GBASE-T, 100 BASE-T(X), 10 BASE-T
Transmission type (Port 6)	1 GBASE-T, 100 BASE-T(X), 10 BASE-T
Switch type	managed
Switching procedure	Store & forward
duplex	Full or half duplex
Auto-negotiation	Yes
Auto-crossover	Yes
Auto-polarity	Yes
Auto-Sensing	Yes
Package buffer	2 Mbit
Topology	ring, net, line, star
Line topology cascading max.	64
Ring topology	RSTP, MRP
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	HTTPS, HTTP
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	Network Access Control (NAC 802.1X), RADIUS-Server
Switch Management	
IP preset	0.0.0.0/24
Priorization type (IEEE 802.1D, IEEE 802.1p)	(Mapping CoS/DSCP), CoS, DSCP
NAT	1:1
QoS (IEEE 802.1p)	8 queues
VLAN managed (IEEE 802.1Q)	Yes
VLANs max. (IEEE 802.1Q)	64
MRP (IEC 62439-2)	Client, Manager
RSTP (IEEE 802.1D-2004, IEC 62439-1)	Default off

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Simple Network Management Protocol (SNMP)	v1 + v2c + v3 (default active)
AutoUpdateX compatible	≥V3.6
Time synchronization	NTP client, Real-time clock, NTP-Server, PTP
Addressing	DCP, SSHv2 command line, BOOTP/DHCP client, Web based management, MIB-Support
Configuration file management	HTTP, Webserver, FTP, TFTP, SFTP
Diagnostics	
Alarm contact	No
LED display	Ethernet connection/data traffic, Fieldbus status, power supply, Device state
System information	Overload indicator, device temperature, Device information, Input voltage
RMON	Yes
Network information	MAC notifications, Neighborhood detection (LLDP, IEEE 802.1AB)
Port mirroring	N:1, 1:1
Syslog	Yes
SNMP traps	Yes
Installation | Connection	
Number ports	8
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 overload protection	Circuit Breakers16 A
Short-circuit protected	Yes
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
Color housing	silver
Mechanical data | Mounting data	
Net weight	904 g
Height	225 mm
Width	63 mm
Depth	37.4 mm
mounting position	random
Mounting method	screwed
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	
Ambient temperature (operation)	-40 °C … 55 °C
Derating	min. 40 °C
Ambient temperature (storage, transport)	-40 °C … 85 °C
Relative humidity (operation)	5 % … 95 %
Relative humidity (storage, transport)	max. 95 %

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Assembly location	Interior
Technical Data | Reliability	
MTTF (EN/IEC 61709, EN ISO 13849-1, SN 29500)	84 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	2023-09
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
PROFINET	Yes
Connection type 4-4	
Connection type 1	XD1
Connection type 2	XD2
Connection type 3	X1-X4
Connection type 4	XF1-XF6
Family construction form	M12
No. of poles	5
Coding	L
Gender	male
Color contact carrier	gray
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	FE
Family construction form	M12
No. of poles	5
Coding	L
Gender	female
Color contact carrier	gray
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	FE
Family construction form	M12
No. of poles	5
Coding	A
Gender	female
Color contact carrier	black

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PIN 1	24 V DC (UB 1) (US)
PIN 2	Signal A
PIN 3	0 V
PIN 4	Signal B
PIN 5	FE
Family construction form	M12
No. of poles	8
Coding	X
Gender	female
Color contact carrier	green
PIN 1	DA +
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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