6 TX managed switch with Gigabit

+ 4 power M12 IP67

Art.No.: 58860
Weight: 0,966 kg
Country of origin: DE
Model designation: 6 TX M GE + 4 Power M12 IP67

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.

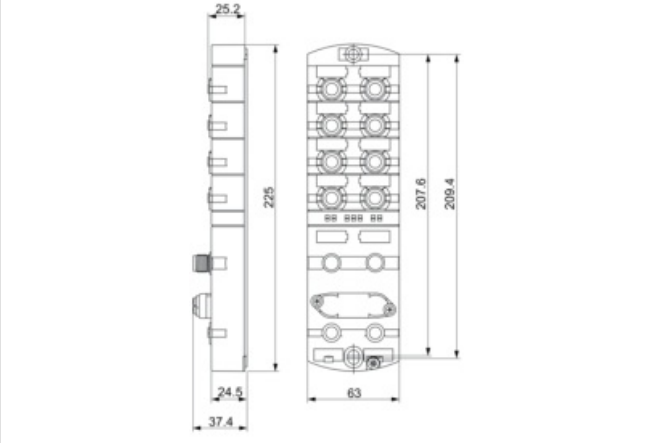
Security features such as Port Security, IEEE 802.1X, and RADIUS, along with an OpenVPN client for remote maintenance, round out the functional scope.

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Link to Product

Illustration





Product may differ from Image

Commercial data

URL Webshop	https://shop.murrelektronik.com/58860
GTIN	4048879852289
EU-Customs tariff number	85176200

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US-Customs tariff number	8517620090
ECLASS-11.1	19170401
ETIM-9.0	EC000734
ETIM-10.0	EC000734
customs tariff number	85176200
EAN	4048879852289
Packaging unit	1
Electrical data | Supply	
Protective measure	SELV/PELV
Operating voltage type	DC
Operating voltage DC min.	18 V
Operating voltage DC max.	28 V
Operating voltage US DC	24 V
Operating voltage range US DC	18 V … 28 V
Total current US max.	16 A
Operating voltage range UA DC	30 V
Idle current max.	350 mA
Current consumption max.	450 mA
Power consumption max.	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.	28 V
Tripping current tolerance	min. 0 % … max. 20 %
Switch-on capacity max.	4.7 mF
Switching elements	Semiconductor switch
Efficiency at load	99.7 % @ 50 %
Industrial Communication	
Number of HW interfaces (Industrial Ethernet)	6
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
Energy-efficient Ethernet (IEEE 802.3az)	Yes
Topology	line, star, ring, net
Line topology cascading max.	64
Ring topology	MRP, RSTP
Net topology	RSTP
Industrial communication | PROFINET	
Conformance Class	A
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	Network Access Control (NAC 802.1X), RADIUS-Server

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Switch Management	
IP preset	DHCP
Priorization type (IEEE 802.1D, IEEE 802.1p)	CoS, DSCP, (Mapping 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
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	SSH-Befehlszeile, DCP, BOOTP/DHCP client, Web based management, MIB-Support
Configuration file management	Webserver, FTP, TFTP, SFTP, HTTP, Micro SD
Diagnostics	
Alarm contact	No
LED display	Ethernet connection/data traffic, Fieldbus status, power supply, Device state
System information	Input voltage, Device information, device temperature, Overload indicator
RMON	Yes
Network information	MAC notifications, Neighborhood detection (LLDP, IEEE 802.1AB)
Port mirroring	1:1, N:1
Syslog	Yes
SNMP traps	Yes
Installation | Connection	
Number ports	6
Device protection | Electrical	
Installation height max. ASL	2000 m
Degree of protection (EN IEC 60529)	IP67, IP65
Protection class (EN IEC 61140)	III
Additional condition overload protection	Circuit Breakers16 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	966 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

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Immunity to interference	EN IEC 61000-6-2
Environmental characteristics | Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	45 °C
Ambient temperature (operation)	-25 °C … 45 °C
Ambient temperature (storage, transport)	-25 °C … 70 °C
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)	67 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
KC	Yes

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