Xelity 16TX managed switch 16 port 1000Mbit ProfiNet IP20

Art.No.: 58827
Weight: 0,370 kg
Country of origin: DE
Model designation: Xelity-16TX-M-GE-PN

Murrelektronik's Xelity product family brings managed switching to the control cabinet: compact, IP20-rated, and easily mounted on a DIN rail.

Available with 4, 6, 8, or 16 Gigabit RJ45 ports, 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. A microSD card enables device replacement without the need for reconfiguration.

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.

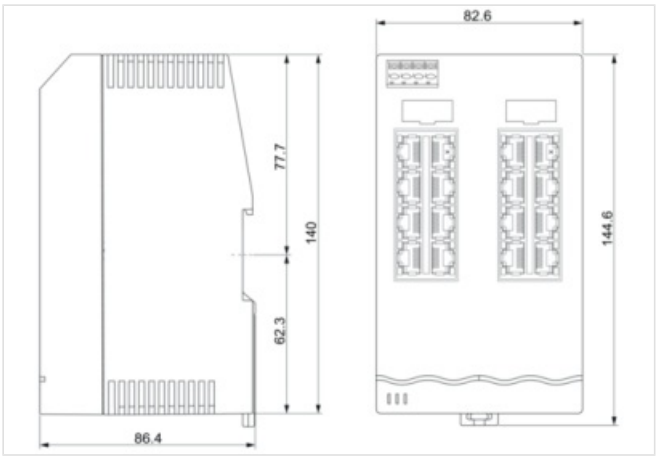
Security features such as Port Security, IEEE 802.1X, and RADIUS, along with an OpenVPN client for remote maintenance, round out the functional scope.

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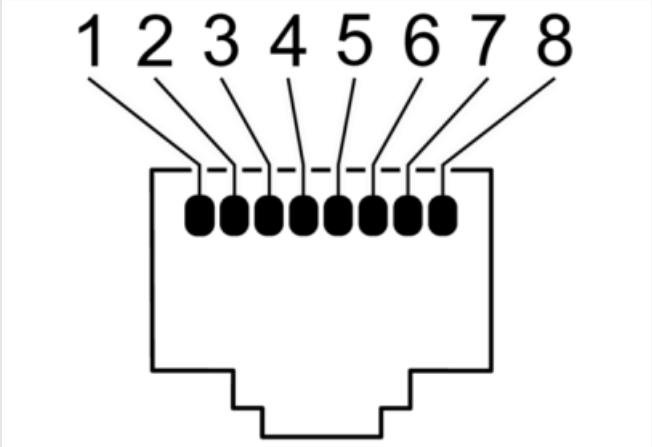
Link to Product

Illustration





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Product may differ from Image

Commercial data	
URL Webshop	https://shop.murrelektronik.com/58827
GTIN	4065909059494
EU-Customs tariff number	85176200
US-Customs tariff number	8517620090
Intended use	For professional use only, Indoor use only
ECLASS-6.0	19170106
ECLASS-6.1	19170106
ECLASS-7.0	19170106
ECLASS-8.0	19170106
ECLASS-9.0	19170106
ECLASS-10.1	19170402
ECLASS-11.1	19170402
ECLASS-12.0	19170402
ETIM-5.0	EC000734
ETIM-7.0	EC000734
ETIM-8.0	EC000734
ETIM-9.0	EC000734
ETIM-10.0	EC000734
Contents per packing unit	1
Gross weight	392 g
customs tariff number	85176200
EAN	4065909059494
Packaging unit	1

Electrical data | Supply	
Protective measure	SELV/PELV
Operating voltage type	DC
Operating voltage DC	12 V / 24 V
Operating voltage DC min.	9 V
Operating voltage DC max.	32 V
Power failure bridging time	10 ms
Idle current max.	350 mA
Current consumption max.	950 mA

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Power consumption max.	8.5 W
Industrial Communication	
Number of HW interfaces (Industrial Ethernet)	16
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	
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
Transmission type (Port 7)	1 GBASE-T, 100 BASE-T(X), 10 BASE-T
Transmission type (Port 8)	1 GBASE-T, 100 BASE-T(X), 10 BASE-T
Transmission type (Port 9)	1 GBASE-T, 100 BASE-T(X), 10 BASE-T
Transmission type (Port 10)	1 GBASE-T, 100 BASE-T(X), 10 BASE-T
Transmission type (Port 11)	1 GBASE-T, 100 BASE-T(X), 10 BASE-T
Transmission type (Port 12)	1 GBASE-T, 100 BASE-T(X), 10 BASE-T
Transmission type (Port 13)	1 GBASE-T, 100 BASE-T(X), 10 BASE-T
Transmission type (Port 14)	1 GBASE-T, 100 BASE-T(X), 10 BASE-T
Transmission type (Port 15)	1 GBASE-T, 100 BASE-T(X), 10 BASE-T
Transmission type (Port 16)	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
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

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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	RADIUS-Server, Network Access Control (NAC 802.1X)
Industrial communication | Memory interface	
Memory card (type)	Micro SD
Memory card max. (capacity)	32 GB
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
QoS (IEEE 802.1p)	8 queues
VLAN managed (IEEE 802.1Q)	Yes
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	MIB-Support, DCP, SSHv2 command line, BOOTP/DHCP client, Web based management
Configuration file management	Micro SD, HTTP, Webserver, FTP, TFTP, SFTP
Diagnostics	
Alarm contact	Yes
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	N:1, 1:1
Syslog	Yes
SNMP traps	Yes
Device protection | Electrical	
Installation height max. ASL	3000 m
Degree of protection (EN IEC 60529)	IP20
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
Circuit Breakers	10 A
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)	15 g 11 ms 6 x (X-, Y-, Z-axis)
Vibration resistance (EN IEC 60068-2-6)	3,5 mm (5 ... 9 Hz), 1 g (9 ... 150 Hz), XYZ-Axis
Mechanical data | Material data	

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housing	PC, ABS
Combustibility class housing (UL94)	V-0
Color housing	gray
Mechanical data | Mounting data	
Net weight	370 g
Height	144.6 mm
Width	82.6 mm
Depth	86.4 mm
mounting position	horizontal
Mounting method	Snap-in connector
Suitable for mounting type	Mounting rail TH35
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 … 60 °C
Derating	min. 54 °C
Ambient temperature (storage, transport)	-40 °C … 85 °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)	45 a @ 40 °C
Environmental product conformity	
REACH ((EC) 1907/2006)	compliant
REACH SVHC ((EC) 1907/2006)	Lead (Pb) CAS 7439-92-1
RoHS (2011/65/EU, (EU) 2015/863)	compliant
RoHS-Exemption (2011/65/EU)	7(a), 7(c)-I
China RoHS (SJ/T 11364, GB/T 26572)	EFUP-20
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	2024-09
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 2-2	
Family construction form	terminal
No. of poles	4
Color contact carrier	green
Connection	Spring clamp terminals FK
PIN 1	12 V / 24 V DC
PIN 2	0 V
PIN 3	FE

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PIN 4	F 1
Family construction form	RJ45
No. of poles	8
Gender	female
Color contact carrier	black
PIN 1	DA +
PIN 2	DA -
PIN 3	DB +
PIN 4	DC +
PIN 5	DC -
PIN 6	DB -
PIN 7	DD +
PIN 8	DD -

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