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Document	Version
Product data	1.1

Art.-No.	Product designation
58811	Xelity 6TX Unmanaged Switch 6 Port 10/100Mbit

The Xelity product range is intended for use in industrial environments.
The switches have TX ports for twisted pair cables.

Special features of the product family:

- **LED indication**
 - The LED located below the green sinusoidal wave indicates the functioning of the UB1 power supply.
 - 2 LEDs are used to indicate an existing connection to the link partner and provide information about data traffic for each TX port.
- **Plug and play**
 - User-friendly plug and play design
- **Cost-effective**
 - The switch provides the user with a cost-effective network extension with low power consumption.
- **IP20**
 - Degree of protection IP20 according to EN 60529 for use in a control cabinet
- **Minimum space requirement**
 - Small dimensions ensure minimum space requirements in machines and systems.
- **Easy to expand and swap out**
 - The device is only 30 mm wide and can be mounted on a mounting rail, which makes it easy to expand and swap out.



Planning information, background information and accessories can be found at:
shop.murrelektronik.com

1 Electrical data

Input		
Input voltage range		9,5 ... 31,5 V ---
Nominal value		24 V ---
Power consumption		1,1 W
Current consumption	At 24 V --- and maximal power consumption	45 mA ±25 %
Reverse polarity protection	Diode	Yes
Overvoltage protection	Varistor	Yes

Ethernet functionality		
Ports		6
Functionality		(Fast) Ethernet switch
Transfer rate		10/100 Mbit/s
Duplex		Full- or half-duplex
Operating principle		Store & Forward
Auto-negotiation		Yes
Auto-crossover		Yes
Auto-sensing		Yes
Auto-polarity		Yes

Ethernet interfaces		
Connection		RJ45 Jack shielded
Connecting cable		≤CAT5
Impedance of connection line		100 Ω
Cable length		≤100 m
Galvanic isolation and shielding/dielectric strength	IEEE 802.3	Yes / 800 V ---

Switch configuration		
Quality of service (QoS)	In accordance with IEEE 802.p (tagged)	Frame priority

Interface for supply		
Inputs		1
Connector for power supply		Push In Spring Force Clamps (FKDSO 2,5/L1)
Diameter of the connecting cables	Rigid/flexible	0,2 ... 2,5 mm ²
Temperature resistance of the connecting cables		70 °C

2 Environmental characteristics

Climatic		
Operating temperature range		-25 °C ... +70 °C
Storage temperature range		-40 °C ... +85 °C
Air humidity (Operation and storage)	Non-condensing	5 ... 95 %
Operating altitude	Above mean sea level	≤3000 m

Mechanical		
Shock test	IEC 60068-2-27	6x X, Y, Z 15 g/11 ms
Vibration resistance	IEC 60068-2-6, crit. 3	10x X, Y, Z 5 ... 9 Hz/3,5 mm 9 ... 150 Hz/1 g
Free fall	EN 61131-2	0,3 m

EMC emitted interference		
Conducted emission	EN 55032 / EN 55011 Class A (industrial)	150 kHz ... 30 MHz
Radiated emission	EN 55032 / EN 55011 Class A (industrial)	30 MHz ... 1000 MHz

Immunity		
Electrostatic discharges (ESD)	EN 61000-4-2 Criterion A	4 kV contact discharge 8 kV aerial discharge
Radiated HF	EN 61000-4-3 Criterion A	10 V/m (80 MHz ... 1 GHz), 3 V/m (1,4 GHz ... 2 GHz), 1 V/m (2 GHz ... 2,7 GHz)
Burst on 24 V $\overline{\text{---}}$ power supply	EN 61000-4-4 Criterion A	2 kV
Burst on data line	EN 61000-4-4 Criterion A	2 kV
Surge on 24 V $\overline{\text{---}}$ power supply	EN 61000-4-5 Criterion A	0,5 kV symmetrical and asymmetrical
Surge on data lines		1 kV
Conducted	EN 61000-4-6 Criterion A	10 V
Magnetic fields	EN 61000-4-8 Criterion A	30 A/m, 1 min.

3 Protection

Elektrical safety		
Degree of protection	According to EN 60529	IP20

4 Mechanical data

Materials		
Housing material		Polycarbonate + ABS
Flammability class	UL94	V-0

Mounting data		
Fastening	According to DIN EN 60715	Mounting rail TH35, horizontal


Mounting data		
Installation position		Perpendicular to mounting rail
Weight	Net	139 g
Weight	Gross	173 g
Dimensions	L x W x D	140 x 30 x 85,1 mm

5 Product reliability












Product reliability		
MTTF	SN 29500 (at 40 °C and rated data)	266 years

6 Conformity, approval, certification

Conformity, approval, certification		
EMC directive Directive relating to electromagnetic compatibility	2014/30/EU	Compliant
RoHS directive Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment	2011/65/EU	Compliant
China RoHS 2 directive	SJ/T 11364-2014	EPUP 20
cULus	UL 61010-2-201, UL61010-1, CSA 61010-2-201, CSA C22.2 No. 61010-1	NRAQ.E201820 NRAQ7.E201820

Hazardous substance (有害物質)							
	Part Name 零件名稱	Lead	Mercury	Cadmium	Hexavalent Chromium	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers
		(Pb) 鉛	(Hg) 汞	(Cd) 鎘	(Cr (VI)) 六价铬	多溴联苯	(PBDE) 多溴联苯醚
	Component part PCB 组件部分 印刷电路板	X	O	O	O	O	O
<p>O: Indicates that the content of the harmful substance in all homogeneous materials of the component part is below the limit defined in GB/T 26572.</p> <p>O: 表明該有害物質在組成部分的所有均質材料的含量低於按GB/ T26572定義的限制。</p> <p>X: Indicates that the content of the harmful substance in at least one homogeneous material of the component part exceeds the limit defined in GB/T 26572.</p> <p>X: 表示該有害物質在組成部分中的至少一個均質材料的含量超過按GB / T26572定義的限制。</p>							

7 Symbol Description

Symbol	Function / description
	General mandatory sign: Follow the mandatory action specified by the supplementary sign
	Read instruction manual before installation
	Electrotechnical expertise is required
	Mechanical expertise is required
	Do not disconnect under load
	For indoor use only
	Observe country-specific waste disposal regulations
	Maximum installation height ≤XXXXm
	Warning: Hot surface
	General warning sign: Refer to the additional sign for the specific hazard
	Warning: Electricity