

Murrelektronik GmbH  
Falkenstraße 3  
71570 Oppenweiler  
GERMANY

Phone +49 7191 47-0  
Fax +49 7191 47-491000  
[info@murrelektronik.com](mailto:info@murrelektronik.com)

Document	Version
Product Data	1.0
Art.-No.	Product designation
58812	Xelity 8TX Unmanaged Switch 8 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 Display**  
LED below the green sine wave indicates the functionality of the power supply.  
Two LEDs are used to indicate a 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 is a cost-effective network extension with low power consumption.
- **IP20**  
IP20 (EN 60529) protection for use in a switch cabinet.
- **Small footprint**  
The small dimensions of the device mean that it does not take up much space in machines and systems.
- **Easy to expand and swap out**  
The device is only 41,6 mm wide and can be mounted on support rails, which makes it easy to expand and swap out.



Planning information, background information and accessories can be found at:  
<http://shop.murrelektronik.com>

## 1 Electrical data

Input		
Input voltage range		9,5 ... 31,5 V ~
Nominal value		24 V ~
Power consumption		1,2 W

Input		
Current consumption	At 24 V --- and maximal power consumption	50 mA ±25 %
Reverse polarity protection	Diode	Yes
Overvoltage protection	Varistor	Yes

Ethernet functionality		
Ports		8
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 DC

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 <sup>2</sup> AWG 24 ... 12
Temperature resistance of the connecting cables		60 °C

## 2 Environmental characteristics

Climatic conditions		
Operating temperature range		-25 °C ... +60 °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 properties		
Shock test	IEC 60068-2-27	6x X, Y, Z 15 g/11 ms

Mechanical properties		
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 $\Rightarrow$ 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 $\Rightarrow$ 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
MTTF		>300 years

### 4 Mechanical data


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

Mounting data		
Dimensions	L x W x D	105 x 41,6 x 85,1 mm
Net weight		130 g

Mounting data		
Gross weight		165 g
Fastening	According to DIN EN 60715	Mounting rail TH35, horizontal
Installation position		Perpendicular to mounting rail

## 5 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 (Pb) 鉛	Mercury (Hg) 汞	Cadmium (Cd) 鎘	Hexavalent Chromium (Cr (VI)) 六价铬	Polybrominated biphenyls (PBB) 多溴联苯	Polybrominated diphenyl ethers (PBDE) 多溴联苯醚
Component part PCB 组件部分 印刷电路板	X	O	O	O	O	O	O
Connection Terminal/ Screws/ Electrical Contact 接线端子/拧/电接触	X	O	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. 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. 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>							

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