

RELIABLE SECURE CONNECTIVITY

XE230 Series

Industrial 10/100BaseT(X) to 100BaseFX Media Converters





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FEATURE HIGHLIGHTS

- Supports Auto MDI/MDI-X and Auto Negotiation
- Supports Multi-mode 2KM, Single-mode 30KM
- Supports Link Fault Pass-Through (LFP)
- Jumbo packets up to 9K bytes
- Operating temperature -10~70°C

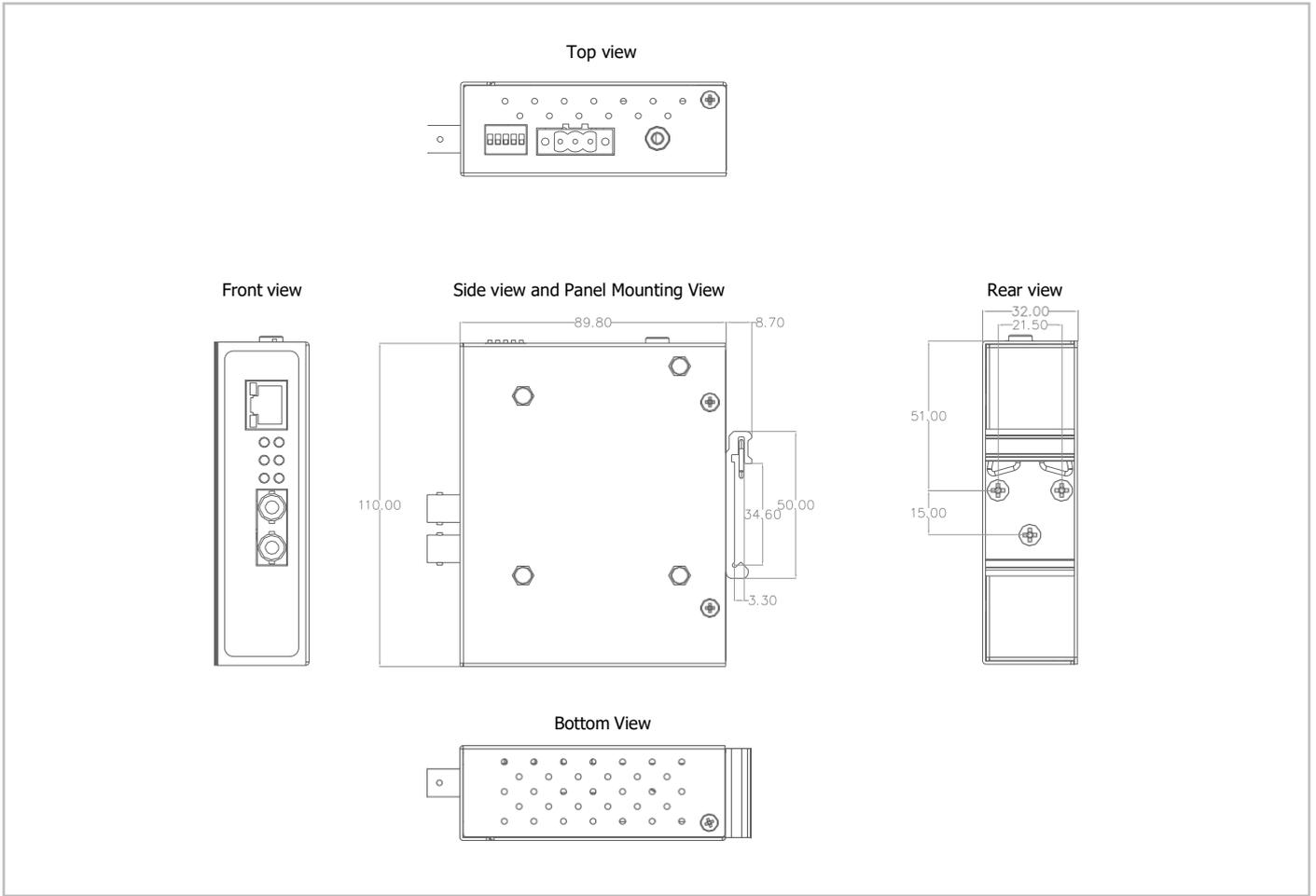


PRODUCT DESCRIPTION

The XEF230 Series Industrial Media Converters provide industrial media conversion between 10/100BaseT(X) and 100BaseFX(SC connector); connection options include multi-mode SC connector (2km), and single- mode SC connector (30km). The XEF230 Series Media Converter is designed for harsh industrial environments, and complies with FCC/CE standards.

The XEF230 Series Media Converter also provides auto MDI/MDI-X, Auto Negotiation, and Link Fault Pass-Through (LFP) function and one 5 pin DIP switch to configure the functions, such as the TX_Duplex mode, FX_Duplex mode, Speed mode, LFP, Auto Negotiation.







SPECIFICATIONS

Switch core	
Model Name	XEF230
Technology	
Standards	IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X), 100BaseFX
Interface	
RJ45 Ports	10/100BaseT(X)
Fiber Ports	100BaseFX (SC connector)
LED Indicators	PWR,SPD,TX_LINK/ACT,TX_FDX/COL,FX_LINK/ACT,FX_FDX/COL
DIP Switch	TX Duplex mode, FX Duplex mode, Speed mode, LFP, Auto Negotiation
Power Requirements	
Input Voltage	6-48 VDC
Input Current	0.5A max, 6 VDC
Connection	Removable 3-pin Screw Terminal Block
Reverse Polarity Protection	Present
Physical Characteristics	
Housing	Metal, IP30 protection
Dimensions (W x H x D)	32 x 90 x 110 mm (1.26 x 3.54 x 4.33 in)
Weight	510g
Installation	DIN-Rail mounting, wall mounting(optional)
Environmental Limits	
Operating Temperature	-10°C ~ 70°C (14°F ~ 158°F)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Ambient Relative Humidity	5 to 95%, 55°C (non-condensing)
Regulatory Approvals	
EMI	FCC Part15, CISPR (EN55032) Class A
EMS	EN61000-4-2 (ESD) Level 3, Criteria B / EN61000-4-3 (RS) Level 2, Criteria A EN61000-4-4 (EFT) Level 3, Criteria A / EN61000-4-5 (Surge) Level 3, Criteria B/A EN61000-4-6 (CS) Level 2, Criteria A
Shock	MIL-STD-810F Method 516.5
Drop	MIL-STD-810F Method 516.5
Vibration	MIL-STD-810F Method 514.5 C-1 & C-2
RoHS	Yes
MTBF	823877 hrs (94.04Years) (Data base: MIL-HDBK-217F, GB 25°C)
Warranty Period	5 Year



Optical Fiber Specifications		
P/N	100Base	
	Multi-mode	Single-mode
Distance	2Km	30Km
Bit rate(Mbps)	155	155
Wavelength(nm)	1310(LED)	1310(FP)
Application	Fast Ethernet / OC3	S1.1 / Fast Ethernet
TX Power(dBm)	-14~-20	-8~-15
RX Sens.(dBm)	<-31	<-34
Remark	XEF230-1-1Fm-SC-2	XEF230-1-1Fs-SC-30



REGULATORY APPROVALS

EMI Immunity Type Tests				
Test	Description		Test Levels	Severity Levels
FCC part 15	-	Subpart B	-	Class A
EN55032	-	2012+AC:2013	-	Class A

EMS Tests				
Test	Description		Test Levels	Severity Levels
IEC61000-4-2	ESD	Contact discharge	6KV,Criterion A	Level 3
		Air discharge	8KV,Criterion B	Level 3
IEC61000-4-3	RS	Enclosure ports	3V/m(unmodulated, r.m.s) 80% AM 1KHz, Criterion A	Level 2
IEC61000-4-4	EFT	Power Port	±2KV,Cirterion A	Level 3
		Single port	±1KV,Cirterion A	Level 3
IEC61000-4-5	Surge	Power Port	±2KV,Cirterion A	Level 3
		Single Port	±2KV,Cirterion B	Level 3
IEC61000-4-6	CS	Power Port	3V/m(unmodulated, r.m.s) 80% AM 1KHz, Criterion A	Level 2
		Single Port		Level 2

EMS Tests				
Test	Description		Test Levels	Severity Levels
MIL-STD-810F	Shock	Impact acceleration & pulse duration	40g@11ms	-
MIL-STD-810F	RS	8 corners, 12 edges, 6 faces	122cm	-
MIL-STD-810F	EFT	Packaged Random waveform	x:2.4 Grms y:1.28 Grms z:3.851.04Grms	-
		Operating Random waveform	x:0.740 Grms y:0.204 Grms z:1.04Grms	-





ORDERING INFORMATION

Ordering information

Model Name	Enclosure
XEF230-1FM-SC-2K	100BaseT(X) to 100BaseFX Media Converter, Multi-mode, SC connector
XEF230-1FS-SC-30K	100BaseT(X) to 100BaseFX Media Converter, Single mode, SC connector

Optional Accessories

Model Name	Description
XPA-315-12-Y-LV6-US	Y-Type power adaptor, 100~240VAC input, 1.25A @ 12VDC output, US plug, LV6
XPA-315-12-Y-LV6-EU	Y-Type power adaptor, 100~240VAC input, 1.25A @ 12VDC output, EU plug, LV6
XDP-24-24F	24W/1A DIN-Rail 24 VDC power supply with universal 100~240 VAC/120~370 VDC input
XDP-48-24FS	48W/2A DIN-Rail 24 VDC power supply with universal 100~240 VAC/120~370 VDC input
XDP-72-24F	72W/3A DIN-Rail 24 VDC power supply with universal 100~240 VAC/120~370 VDC input
XDP-100-24F	100W/4A DIN-Rail 24 VDC power supply with universal 100~240 VAC/120~370 VDC input
XDP-120-24F	120W/5A DIN-Rail 24 VDC power supply with universal 100~240 VAC/120~370 VDC input
XDP-120-48F	120W/2.5A DIN-Rail 48 VDC power supply with universal 100~240 VAC/120~370 VDC input
2ESDP-03P	3-pin 5.08mm Terminal Block with 180° Angle





WHO WE ARE

Built on 20 years of experience in designing and manufacturing industrial networking products, **Agatel** was established from the UK to serve the infrastructure and industrial sectors in EMEA markets with reliable connectivity for mission-critical systems in demanding environments.

Experienced in hardware and software design and integration, we produce high-quality yet cost-effective industrial networking and communication products with great customization capabilities and robust implementations, equipping our customers for reliable secure industrial networks.



WHAT WE OFFER

The needs of our customers' industry are different from those of corporate IT environments – industrial operating environments are tough and the impact of failure in the field can lead to business threatening situations, hence our products will have lifetimes in excess of 20 years.

From entry-level to high-performance industry-certified hardware, **Agatel** offers a full solution spectrum to suit our customers' budgets and application requirements, with features such as industrial-grade reliability, integrated security, network redundancy, and advanced performance.

Our product solution profile includes industrial Ethernet switches, network time servers, media converters, industrial wireless devices, and serial device servers, covering a wide array of mission-critical applications such as automation, security, transport, water, oil and gas, and power grids.



WHY CHOOSE US

We help our customers reduce downtime and operational costs of their industrial applications in harsh environments. Leading system integrators in EMEA rely on our niche technical expertise and product quality to increase their applications' robustness, revenues, and competitive differentiation.

Agatel ruggedized high-quality solutions are designed to deliver zero-network-downtime for harsh project demands, allowing for reliable connectivity to keep people and assets safe and secure in harsh and hazardous environments, and allowing customers to focus on growing their business.

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