



**10/100Base-Tx to 100Base-FX With Lightning-protection Enhanced
Industrial Fiber Media Converter**

OP-EC1x71xxx-xx-xx-EI



Shenzhen Optostar Optoelectronics Co., Ltd

2015. 11(Version 1)

Item	Enhanced Industrial Media Converter
Model No.	OP-EC1x71xxx-xx-xx-EI
Description	1*10/100Base-TX to 1*100Base-FX With Lightning-protection function
	

Overview

OP-EC1x71xxx-xx-xx-EI is unmanaged industrial fiber media converter is designed to match the critical industrial standards. With reliable and simple operation against vibration and shock, and wide operation temperature range, it could match a variety of harsh environment.

The switch complies with CE FCC and RoHS standards, and passed the 100% burning test to ensure that it will fulfill the needs of industrial applications. It is a good choice for an economical solution for industrial Ethernet connections.

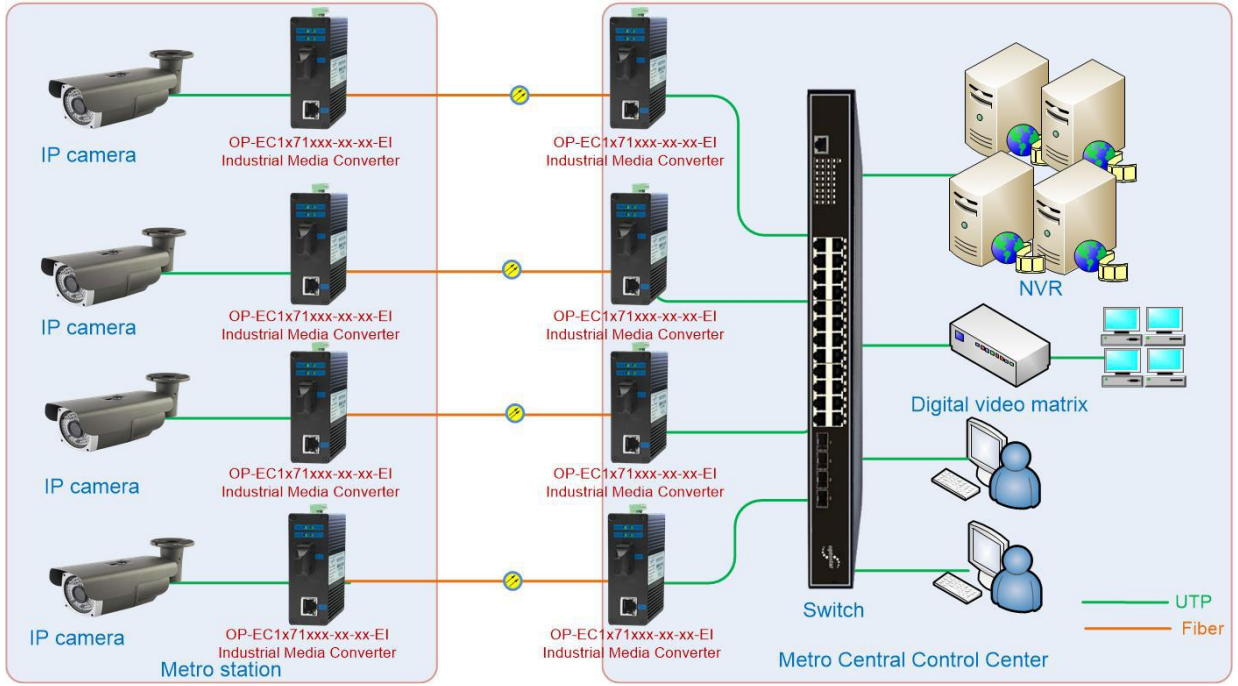
it provides the high performance and advanced networking quality to deliver all networking communications and data (such as IP telephony, IP surveillance, and Video Streaming) over a single network.

Features

- 1*10/100Base-TX port and 1*100Base-FX port
- Super lightning protection, IP40 protection
- Excellent heat elimination without cooling fan
- Redundant dual DC power inputs
- -40°C-85°C operating temperature range

Application

1. Network Communication
2. FTTH / FTTB / FTTx



Technical Indexes

Standard	<p>IEEE802.3u, 100Base-FX IEEE802.3, IEEE802.3u, 10/100Base-TX Safety: UL 60950-1 Shock: IEC 60068-2-27 Free Fall: IEC 60068-2-32 Vibration: IEC 60068-2-6 EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A Industry: IEC61000-6-2 Rail: EN50155, EN50121-4 Traffic: NEMA TS-2</p>
EMS	<p>EN61000-4-2 (ESD), Level 3 EN61000-4-3 (RS), Level 3 EN61000-4-4 (EFT), Level 3 EN61000-4-5 (Surge), Level 3 IEC61000-4-8(100A/m), Level 3 IEC61000-4-11, Level 3</p>
Copper Port	<p>1*10/100Base-TX auto negotiation speed Full/Half duplex mode Auto MDI-MDI-X connection Up to 100M Cat-5 transmission distance</p>



Fiber Port	1*100Base-FX Rate: 100Mbps Wavelength: 1310nm/1550nm Up to 2Km transmission distance with multi-mode Up to 20km,40km,60km,80km transmission distance with single-mode SC/ST/FC interfaces optional
Switch Properties	MAC Table Size: 8K Packet Buffer Size: 1M bit Processing Type: Store and Forward Exchange Properties: 148800pps (100M)
Power	Input Voltage: 24V DC(18-36VDC), Redundant dual inputs Input Current: <0.5A @24VDC Overload Current Protection: Present Reverse Polarity Protection: Present Redundant Protection: Present
Environmental Limits	Operating Temperature: -40°C-85°C Storage Temperature: -40°C-85°C Ambient Relative Humidity: 5%-95% (non-condensing)
Warranty	5 years
Physical Characteristics	Housing: Aluminum Alloy material with IP40 Protection Dimension: 98mm(L) X 78mm(W) X 32mm(H) Weight: 270g Installation: Din-Rail mounting, Wall mounting

Order Information

Model No.	Data Rate	Fiber Mode	Wavelength	Fiber Connector	Distance	Power Supply
OP-EC1M712x1-11-2-EI	10/100M	MMF	1310nm	LC/SC/ST/FC	2km	Internal.DC24
OP-EC1S712x1-11-20-EI	10/100M	SMF	1310nm	LC/SC/ST/FC	20km	Internal.DC24
OP-EC1S713x1-11-20-EI	10/100M	SMF	1550nm	LC/SC/ST/FC	20km	Internal.DC24
OP-EC1S712x1-11-40-EI	10/100M	SMF	1310nm	LC/SC/ST/FC	40km	Internal.DC24
OP-EC1S713x1-11-40-EI	10/100M	SMF	1550nm	LC/SC/ST/FC	40km	Internal.DC24
OP-EC1S712x1-11-60-EI	10/100M	SMF	1310nm	LC/SC/ST/FC	60km	Internal.DC24
OP-EC1S713x1-11-60-EI	10/100M	SMF	1550nm	LC/SC/ST/FC	60km	Internal.DC24
OP-EC1S712x1-11-80-EI	10/100M	SMF	1310nm	LC/SC/ST/FC	80km	Internal.DC24
OP-EC1S713x1-11-80-EI	10/100M	SMF	1550nm	LC/SC/ST/FC	80km	Internal.DC24
OP-EC1M715x1-11-2-EI	10/100M	MM Bi-di	TX1310/RX1550nm	LC/SC/ST/FC	2km	Internal.DC24
OP-EC1M717x1-11-2-EI	10/100M	MM Bi-di	TX1550/RX1310nm	LC/SC/ST/FC	2km	Internal.DC24
OP-EC1S715x1-11-20-EI	10/100M	SMF Bi-di	TX1310/RX1550nm	LC/SC/ST/FC	20km	Internal.DC24



OP-EC1S717x1-11-20-I	10/100M	SMF Bi-di	TX1550/RX1310nm	LC/SC/ST/FC	20km	Internal.DC24
OP-EC1S715x1-11-40-I	10/100M	SMF Bi-di	TX1310/RX1550nm	LC/SC/ST/FC	40km	Internal.DC24
OP-EC1S717x1-11-40-I	10/100M	SMF Bi-di	TX1550/RX1310nm	LC/SC/ST/FC	40km	Internal.DC24
OP-EC1S715x1-11-60-I	10/100M	SMF Bi-di	TX1310/RX1550nm	LC/SC/ST/FC	60km	Internal.DC24
OP-EC1S717x1-11-60-I	10/100M	SMF Bi-di	TX1550/RX1310nm	LC/SC/ST/FC	60km	Internal.DC24
OP-EC1S715x1-11-80-I	10/100M	SMF Bi-di	TX1310/RX1550nm	LC/SC/ST/FC	80km	Internal.DC24
OP-EC1S717x1-11-80-I	10/100M	SMF Bi-di	TX1550/RX1310nm	LC/SC/ST/FC	80km	Internal.DC24

Note:

- Fiber Connector is SC,x=1
- Fiber Connector is ST,x=2
- Fiber Connector is FC,x=3
- Fiber Connector is FC,x=4

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