**ADD-IFMC-LX-1SC2**

2 10/100Base-TX(RJ-45) to 1 100Base-LX(SC) SMF 1310nm 20km Industrial Media Converter Switch

**Features**

- All-aluminum Case, Compact and Fanless Design
- Full/Half-duplex self-adaptation
- MDI/MDIX automatic recognition
- Optionally support IEEE 802.3af/at/bt PoE Standard, without damaging not-PoE devices.
- Operating Temperature from -40 to 75℃
- Dual Redundant DC9~56V power input
- Support power input polarity protection; no worries about the reverse connection
- Aluminum shell, fanless design
- Free fall, shock-proof and vibration-proof for industries
- Plug and play; no software configuration is needed
- Either DIN rail or Wall Mount installation

**Product Description**

This is an industrial media converter that converts 2 10/100Base-TX(RJ-45) to 1 100Base-LX(SC) via 1310nm single-mode fiber (SMF) SC, with a maximum distance reach of 20km. This provides a cost effective conversion from 10/100Base-TX(RJ-45) to 100Base-LX fiber, while extending the network reach beyond the 100m reach limitation of copper. This industrial grade product includes a terminal block and does not come with a power plug. Our media converters and network interface cards are 100% compliant for all of our networking needs. Now you have a cost effective solution to your network upgrade needs.

## Ethernet Interface Specifications

| Parameter | Specifications |
|---|---|
| Ports | 4x10/100Base-TX Port (RJ-45)<br>1x100Base-X (SFP/1x9) |
| Port Mode (Tx) | Auto Negotiation Speed<br>Full/Half Duplex Mode<br>Auto MDI/MDI-X Connection |
| Standards | IEEE 802.3 for Ethernet<br>IEEE 802.3u for Fast Ethernet<br>IEEE 802.3x for Flow Control and Back Pressure<br>IEEE802.3az for Energy Efficient Ethernet (EEE) |
| Packet Buffer Size | 512K |
| Maximum Packet Length | 9K |
| MAC Address Table | 4K |
| Transmission Mode | Store and Forward (Full/Half Duplex Mode) |
| Exchange Property | Delay Time: < 7µs<br>Backplane Bandwidth: 1.25G |

## PoE & Power Supply Specifications

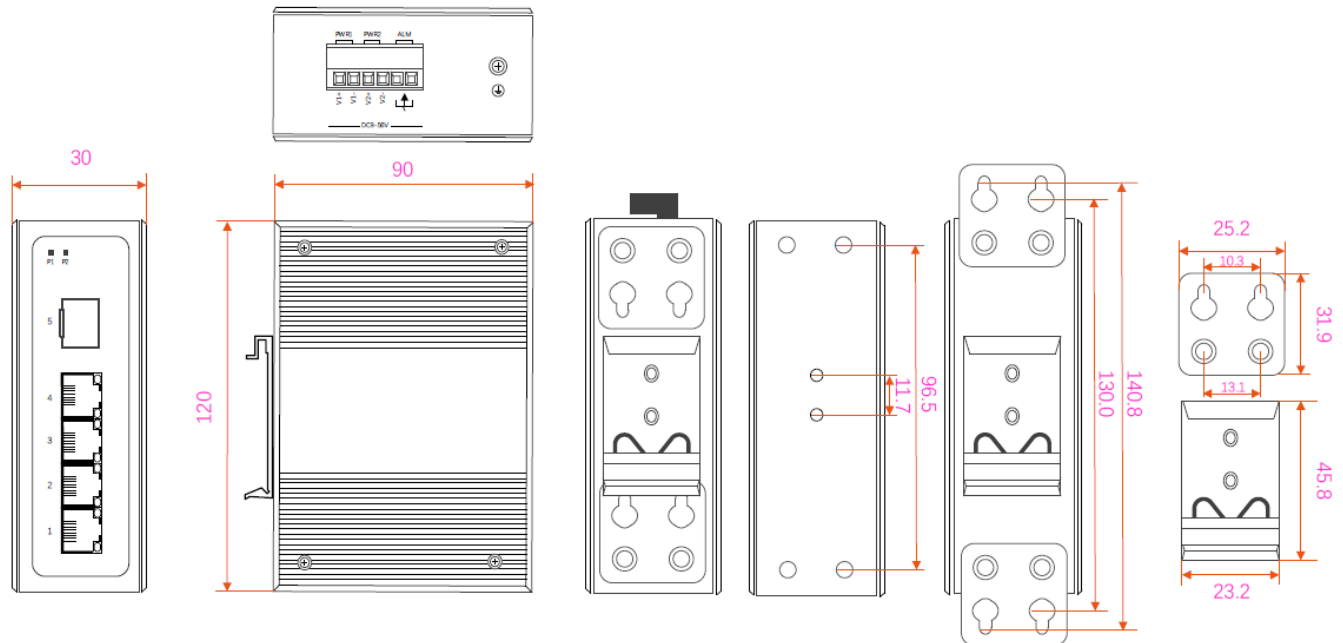| Parameter | Specifications |
|---|---|
| PoE Ports | Port 1 to 4 IEEE802.3af/at @PoE+ |
| Power Supply Pin | Default: 1/2(+), 3/6(-) |
| Max Power Per Port | 30W |
| Total PWR/Input Voltage | 120W(DC48-56V) (Model-Dependent) |
| Power Consumption | 3W Maximum (Without PoE Load) |
| Power Inputs | 2 |
| Operating Voltage | Non-PoE Mode: 9-56VDC<br>30W PoE Mode: 48-56VDC<br>90W PoE Mode: 52-56VDC (IEEE802.3bt Model) |
| Connector | 1 Removable 6-Contact Terminal Blocks<br>Pin 1/2 for Power 1, Pin 3/4 for Power 2, Pin 5/6 for Fault Alarm |
| Protection | Overload Current Protection, Reverse Polarity Protection |

## LED Specifications

| LED | State | Description |
|---|---|---|
| PWR<br>(P1&P2) | On | Power is being supplied. |
| | Off | Power is not being supplied. |
| Link/ACT<br>(1-5) | On | Port connection is active. |
| | Blinking | Data transmitted. |
| | Off | Port connection is not active. |

## Physical Characteristics

| Parameter | Specifications |
|---|---|
| Housing | Aluminum Case |
| IP Rating | IP40 |
| ESD Protection | 6KV |
| EFT Protection | 6KV |
| Dimensions | 120mm x 90mm x 35mm (L x W x H) |
| Installation Mode | DIN Rail/Wall Mount |
| Weight | 400g (Without PoE) |
| Operating Temperature | -40℃ to 75℃ (-40ºF to 167ºF) |
| Storage Temperature | -40℃ to 85℃ (-40ºF to 185ºF) |
| Operating Humidity | 5-95% (Non-Condensing) |
| Heat Dissipation | 10 BTU/h (Non-PoE)<br>420 BTU/h (30W PoE)<br>1260 BTU/h (90W PoE) |
| Cooling | Passive Cooling |
| Noise Level | 0dBA |

## Mechanical Specifications

Unit: mm

**About AddOn Networks**

In 1999, AddOn Networks entered the market with a single product. Our founders fulfilled a severe shortage for compatible, cost-effective optical transceivers that compete at the same performance levels as leading OEM manufacturers. Adhering to the idea of redefining service and product quality not previously had in the fiber optic networking industry, AddOn invested resources in solution design, production, fulfillment, and global support.

Combining one of the most extensive and stringent testing processes in the industry, an exceptional free tech support center, and a consistent roll-out of innovative technologies, AddOn has continually set industry standards of quality and reliability throughout its history.

Reliability is the cornerstone of any optical fiber network and is in engrained in AddOn's DNA. It has played a key role in nurturing the long-term relationships developed over the years with customers. AddOn remains committed to exceeding industry standards with certifications from ranging from NEBS Level 3 to ISO 9001:2005 with every new development while maintaining the signature reliability of its products.

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