

Item	Industrial Media Converter
Series No.	Ikshu-3100
Description	10/100/1000Base-T to 1000Base-FX
	

Overview

The Ikshu 3100 series Industrial Media Converter is designed to extend the distance of a network by converting Giga Ethernet data between twisted pair cabling and multi-mode or single-mode fiber-optic cabling.

The Ikshu 3100 features a 1000Base-FX fiber port and a 10/100/1000Base-T twisted-pair port. The fiber optic port features SC connector and operating distance from 550m to 120km depending on different Model. The twisted-pair port has an RJ-45 connector with a maximum operating distance of 100m.

Ikshu-3100-F features a 1000X SFP fiber Port and a 10/100/1000T twisted-pair port. The fiber optic port features a modular SFP slot for any kind of MSA-complaint pluggable 1.25Gbps SFP transceivers.

Many Backbone switch products now support the industry-standard IEEE802.1Q specification for VLANs that send extra-long data packets on the network. The Ikshu 3100 series converters are fully compatible with these long packets, enabling them to be used in modern networks

The small size and dual external power supply inputs of the Ikshu 3100 Series allows them to be used almost anywhere in harsh environmental conditions. Additionally, they can be installed by DIN-rail or wall-mount, allowing users to deploy any mix of network conversions required.



Features

- UTP to fiber media converter
- RJ-45 port support auto MDI/MDI-X function
- Auto-negotiation speed, half/full-duplex
- Store-and-forward switching architecture
- Support wide operating temperature (-40 °C ~ +85 °C)
- Wide-range redundant power design (12~56VDC)
- Power polarity reverse protect
- Overload current resettable fuse present
- IP-40 protection
- Provide EFT protection for Power line
- Support Ethernet ESD protection
- DIN-Rail and Wall Mounting Installation
- Low power consumption



Technical Specifications

Standards	IEEE802.3 10Base-T, IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-SX/LX standards IEEE802.3x Flow control and back pressure IEEE802.1d Spanning Tree, IEEE802.1Q VLANs
Performance	Processing Type : Store and Forward, MAC Address table: 1Kbit Buffer Space: 288Kbit Time Delay: <20 μ s
Copper Port	Data Rate: 10/100/1000M Connector: RJ45 Distance: 100m
Fiber Port	Data Rate: 1.25G Connector: SC as default, FC/ST/SFP Slot Optional Distance: MMF 550m/2km, SMF 20/40/80/100/120km, Bi-di:20/40/80/100/120km
LED indicators	PWR1: ON=Power Connected PWR2: ON= Power Connected FL/A: ON=Fiber Connected; Active=Data Transmitting TL/A: ON=Copper Connected; Active= Data Transmitting 1000M: ON=1000M Data Rate Transmitting
Power	Input Voltage: 12~56 VDC, redundant power inputs Power Consumption: <5W Protection: Overload Current; Reverse Polarity Connector: Terminal Block
Environment	Operating Temperature: -40 °C ~ +85 °C Storage Temperature: -40 °C ~ +95 °C Relative humidity: 5-95% (no condensation)
Physical Characteristics	Housing: IP40 Protection, Aluminum Alloy Installation: DIN-Rail , Wall-Mounted Dimension: 115*81*35mm Weight: 0.30kg



EMS Standards

IEC61000-4-2(ESD): +8KV (Contact Discharge), +15KV(Contact Discharge) IEC61000-4-3(RS): 10V/M (80-1000MHZ)
IEC61000-4-4(EFT): power cables +4KV, signal cables +2KV IEC61000-4-5(Surge): power cables +4KV CM/+ 2KV DM, signal cables + 2KV IEC61000-4-6(RF coupling): 3V (10KHZ-150KHZ), 10V (150KHZ-80MHZ)
IEC61000-4-8(Power Frequency Magnetic Field): 100A/M COUNT 1000A/M 1S TO 3S
IEC61000-4-12/18(Damped Oscillatory Wave): 2.5KV CM, 1KV DM IEC61000-4-10(conducted disturbances): 30A/M
IEC61000-4-16(common mode): 30V COUNT 300V, 1S
IEC61000-6-2(Electromagnetic compatibility) IEC61850-3(electrical substation)
IEEE1613 (electric power substations) EN50121-4(Rail Traffic)

Order Information

Model No.	Description
Ikshu 3100-M05	10/100/1000M MMF,850nm,SC,550m

Note:

1. Power supply provided by user or ordered additionally
2. SC connector as default, FC/ST as request

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