TECHAYA

RUGGED ENVIRONMENT SOLUTIONS

ICE9600 are series of media converters especially designed for working in rugged environment and out-door installation, supporting the temperature range of -40C° to +85C°.

ICE9600 is a series of 1000BaseTX to 1000BaseFX media converters. ICE9600 series also supports 1000BaseFX Multimode to Singlemode media converters. ICE9600 Series are available in a wide range of fiber cablings and connector types. It supports SC and ST connectors, available in multi-mode and single-mode of distances up to 100 km.

ICE9600 is available in Single-mode to Single-mode for extending fiber reach. The ICE9600 provide state of the art solution for the growing demand for fiber optic cabling deployment in rugged environments.

Key Features

- ICE 9600 provides one port 1000Base-T/TX, Auto MDI-II/MDI-X with RJ-45 connector and one port 1000BaseFX fiber connector.
- ICE9600FMS provides two ports 1000BaseFX connector.
- DIP switch configuration for "Link-Loss-Forwarding", fiber auto/force mode, link down alarm
- Alarms for power and port link failure by relay output
- Jumbo Frame Support up to 9K
- Redundant 12 - 48VDC Terminal Block power input
- Front panel status LEDs
- Non-blocking full wire-speed forwarding rate
- Store-and-forward mechanism.
- Support broadcast storm filtering
- Back-pressure & IEEE802.3 x complaint flow control
- 2048 MAC addresses
- DIN Rail mounting
- NEMA TS1/2 Certified

Specifications

Technical Specification

LED:	ICE9600:	Per Unit	Power status (2 LEDS)
		Per Port	LNK/ACT, TX, RX (3 LEDs)
		Per Unit	Fault Indication (1 LED)

Ethernet Standards:

ICE9600: IEEE 802.3ab 1000Base-Tx,
IEEE 802.3z 1000Base-FX (SX, LX, ZX, WDM)

Cable: 1000Base-TX:4-pair UTP Cat.5e, Cat6 up to 100m (328ft)
1000Base-FX:62.5/125um Multi-mode fiber optic cable, up to 220m
50/125um Multi-mode fiber optic cable, up to 500m
10/125um Single-mode fiber optic cable, up to 100km

Forwarding Rate: 1,488,000pps for 10Mbps

Physical Specification

Power:	Redundant 12-48VDC Terminal Block, 0.3A Max, 9.1 Watt Max.
Alarm Contact:	One relay output with current 1A @ 24VDC
Operating Temperature:	-40˚C ~85˚C (-40˚F ~185˚F)
Storage Temperature	-25˚C ~90˚C (-49˚F ~194˚F)
Humidity:	0%~95% non-condensing
Dimensions:	W50mm x D110mm H136mm (1.97"(W) x 4.33"(D) x 5.35"(H))
Net Weight:	0.6kg
Regulation Compliance:	CE (EN55022, EN55024) ,FCC, UL60950, EN60950, IEC60950, IEC61000-6-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8, IEC61000-4-11, IEC60068-2-6, IEC60068-2-27, IEC60068-2-32, NEMATS1/2

Ordering Information

ICE9600SX/SC	1000BaseT to 1000FX (SC, SX - Multi-Mode) Media Converter for rugged environment (-40°C - +85°C), Up to 500m
ICE9600LX10/SC	1000BaseT to 1000FX (SC, LX - Single-Mode) Media Converter for rugged environment (-40°C - +85°C), Up to 10Km.
ICE9600LX20/SC	1000BaseT to 1000FX (SC, LX - Single-Mode) Media Converter for rugged environment (-40°C - +85°C), Up to 20Km.
ICE9600LX40/SC	1000BaseT to 1000FX (SC, LX - Single-Mode) Media Converter for rugged environment (-40°C - +85°C), Up to 40Km.
ICE9600W/SC20A	1000BaseT to 1000FX (WDM, Single Fiber) Media Converter for rugged environment (-40°C - +85°C), Up to 20Km (TX-1310, RX-1550).
ICE9600W/SC20B	1000BaseT to 1000FX (WDM, Single Fiber) Media Converter for rugged environment (-40°C - +85°C), Up to 20Km (TX-1550, RX-1310).

* WDM version converters are also available for 40Km.

** ST connectors are also available upon demand.