



RUGGED ENVIRONMENT SOLUTIONS

Thermally Hardened RS232/422/485 Serial to 10/100TX or 100FX Manageable Protocol Converter

ICE 9000 SERIES

ICE

The ICE9000 terminal Server addresses a requirement for connecting legacy serial interface equipment to the fast adopting, user friendly Ethernet topology. The ICE9000 Terminal Server is capable of migrating legacy serial interface based equipment to a fast Ethernet network in a rugged environment temperature range of -34C° to 74C°. The ICE9000 is applicable in industrial and traffic system situations.



ICE9000

Manageable Protocol Converter:

The ICE9000 Series Terminal Server is a manageable device that converts between the serial RS232/422/485 communication protocol to Fast Ethernet. The ICE9000 Series is manageable through its standard web-smart Graphic User Interface (GUI). With an operating temperature ranges from -34C° to 74C°, ICE9000 is the ultimate solution for harsh environments and easy migration.

Key features

- One port 10/100Base-T/TX auto-negotiation
- Auto MDI-II/MDI-X with RJ45 connector
Or one port Multi-Mode with SC/ST/MT-RJ/VF-45 fiber connector
Or Single-Mode SC fiber connector
- One serial port 4 wires full-duplex asynchronous (RS422/485)
Or 2 wires half-duplex asynchronous (RS485).
- Provides 3-in1 RS-232/422/485 serial interfaces
- Extended distances up to 1.2km (24 AWG) using RS-422/485.
- Management through Serial-Console, Telnet, Web Management, Firm upgradeable.
- NEMA TS1/2 Certified

Specifications

Technical Specification

Hardwarer	Processor	32-bit processor
	Memory	8 Mbytes
	Serial Connector	DB25

RUGGED SWITCHES

TECHAYA LTD.

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 Power status, LNK/ACT, FDX, STATUS
 (ON – is idle, BLINK - Running) (4 LEDs per unit)
Standards	IEEE 802.3 10Base-T
	IEEE 802.3u 100Base-TX, 100Base-FX
	..... EIA/TIA RS-232E; EIA/TIA-574
Interface	LAN..... Auto-detecting 10/100Base-TX or Fiber
	Ports 1x UTP: 100/120ohm; RJ-45 type or Fiber
	..... 1x 25pin serial connector; D-sub, female
	Max. Distance UTP: 100 meters, Fiber up to 75km
	Serial 15 meters (RS-232) / 1,200 meters (RS-422,RS-485)
	Serial Connector RS-232/422/485 (one serial port)
Performance	Speed 600 to 230.4 kbps
Data Rate	UTP 10 or 100Mbps Serial 50~115.2kbps (asynchronous)
Configuration	Parity None, Even, Odd
Data Bits	..... 5,6,7,8
Stop Bits	..... 1,2
Flow Control	..... None, RTS/CTS, Xon/Xoff
OS Support	..... VIRCOCM driver for Window 95,98,2000 and XP
Protocol	..... TCP, IP, UDP, Telnet, DHCP, ICMP, HTTP
Operation Modes	..... VIRCOCM mode, Server Mode, Client Mode

Physical Specification

Power	..... DC 9V ~30V 800mA; External Power Supply
Operating Temperature	..... -34°C~74°C (-30°F~165°F)
Storage Temperature	..... -45°C~93°C (-50°F~200°F)
Humidity	..... 0%~95%, non-condensing
Dimensions	..... L109mm x W83mm x H22mm (4.29"x3.27"x0.94")
Weight	..... 0.8kg
Emission & Compliance	..... CE, FCC, NEMA TS1, TS2

Ordering Information

ICE9000T	Single Port RS-232/422/485 to 10/100TX (RJ-45) Terminal Server, hardened
ICE9000MSC	..... Single Port RS-232/422/485 to 100FX
	..... (SC, Multi-Mode) Terminal Server, hardened
ICE9000MST	..... Single Port RS-232/422/485 to 100FX
	..... (ST, Multi-Mode) Terminal Server, hardened
ICE9000MVF	..... Single Port RS-232/422/485 to 100FX
	..... (VF45, Multi-Mode) Terminal Server, hardened
ICE9000MMT	..... Single Port RS-232/422/485 to 100FX
	..... (MTRJ, Multi-Mode) Terminal Server, hardened
ICE9000MLC	..... Single Port RS-232/422/485 to 100FX
	..... (LC, Multi-Mode) Terminal Server, hardened
ICE9000S15	..... Single Port RS-232/422/485 to 100FX
 (SC, Single-Mode), up to 15km
 Terminal Server, hardened (40km and 75km also available)

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