

Modbus Gateways Server

Create a seamless communications bridge to legacy Modbus RS-232, RS-422 or RS-485 networks with the ESERV-M12T Modbus Gateways server from N-TRON. The serial ports can be accessed over a LAN or WAN using Direct IP Mode connections. Supporting up to 16 masters and 32 slaves, these products feature autodetecting 10/100 copper and fiber optic options. Easy-to-use software, designed for Windows 2000, 2003 Server, XP and Vista, provides Modbus messaging priority control and allows management through multiple TCP/IP client sessions. Support for serial data rates up to 230 kbps ensures maximum network flexibility. Built for industrial environments, these tough gateways are housed in a slim IP30 DIN rail mountable case. They operate with a range of DC power supply voltages and have pluggable terminal block connectors. An external power supply (sold separately) is required.

PRODUCT FEATURES

- Ethernet Enabled Modbus RS-232/422/485
- Modbus TCP, ASCII, and RTU
- Modbus Flexibility- Serial & Ethernet, Masters & Slaves
- Modbus Messaging Priority Control •
- View Messaging Status in Real Time
- Ethernet Fiber Options
- · Easy Configuration Software

Specifications

Serial Technology

TD, RD, RTS, CTS, DTR, RSR, DTD, GND RS-232 RS-485 2-Wire Data A(-), Data B(+), GND RS-422/485 4-Wire TDA(-), TDB(+), RDA(-), RDB(+), GND **Removable Terminal Blocks** Serial Connector Data Rate up to 230.4 kbps Network Serial Memory 8KB per port Network Memory

4KB 5300 - Heartbeat and configuration Setting in TCP mode (paired mode) 8888 - ESERV-M12T Update 2k

IEEE 802.3 auto detecting & auto

MDI/MDX 10BaseT and 100BaseTX

Mac Address Table

IP Port Address

Network Communications LAN

10/100 Mbps Auto-Detecting

Network Physical Layer Standards

Ethernet

Protocols

TCP, IPv4, ARP, TELNET, HTTP 1.0, ICMP/PING, DHCP/BOOTP **IP MODE** Static, DHCP User Definable TCP

Configuration Software

OS Compatibility

Windows 2000, 2003 Server, XP, Vista



Fiber Optic Technology

Type/Wavelength Output Power Receive Sensitivity Cable Connector Range

Connection Mode

Firmware Upgrade

Power Consumption

Wire Size Accepted

Power Connector

Other

Search

Power

Source

Input Voltage

Mechanical

Dimensions

Enclosure

Weight

MTBF

LED Indicators Switches

Diagnostics

Multi-mode / 1310nm -19 to -14dBm ~ -32dBm 62.5 / 125um ST 1.2 Miles (2km)

Modbus RTU Master/Slave Modbus ASCII Master/Slave Serial direct COM and Ethernet Auto Search or specific IP Display PC IP, ping save test config (text readable) Web GUI through Ethernet

External 10 to 58 VDC 4.0 W Removable Terminal Block 12 to 28 AWG

Serial Port, Ethernet Link, Ready Reset Button 1.2 x 3.2 x 4.7 in (3.0 x 8.1 x 11.9 cm) IP 30 Plastic, 35 mm DIN Mount 0.33 lbs (149.7 g) 132309 hours Parts Count Reliability Prediction

- 40 to 85°C (-40 to 185°F)

Environmental Operating Temperature - 34 to 80°C (-29 to 176°F) Storage Temp

MTBF Calc. Method

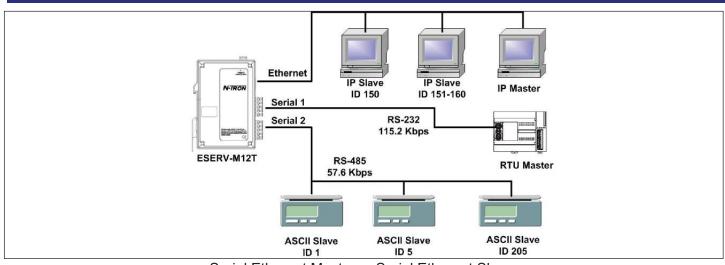
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Operating Humidity
          0 to 95% Non-condensing
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RegulatoryApprovals FCC, CE, UL 508

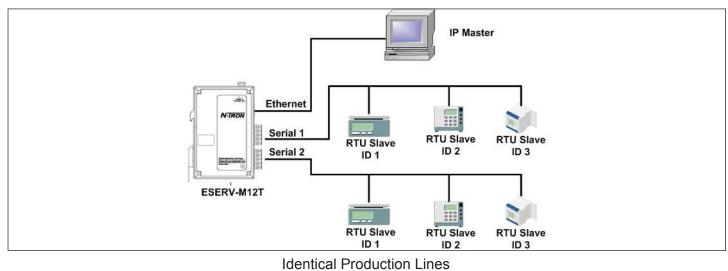


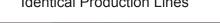
ESERV-M12T Specifications

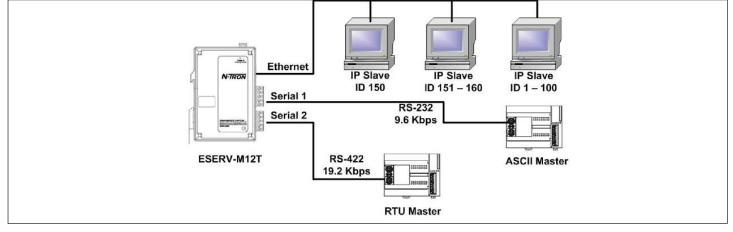
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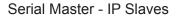


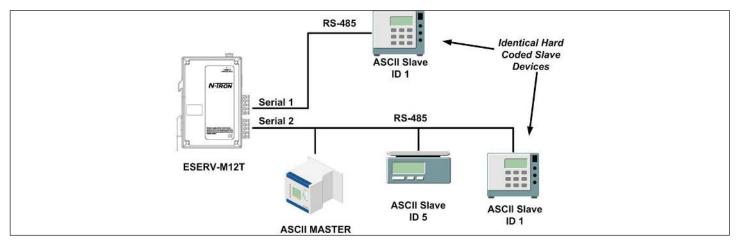
Serial Ethernet Masters - Serial Ethernet Slaves





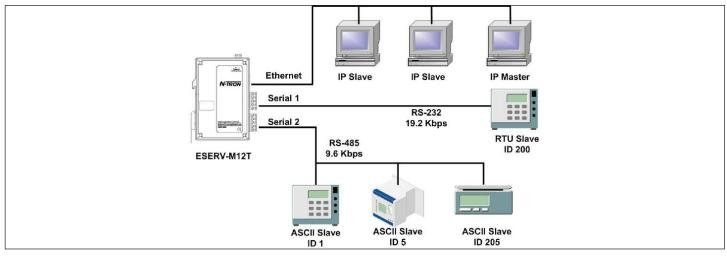






ISO 9001:2008

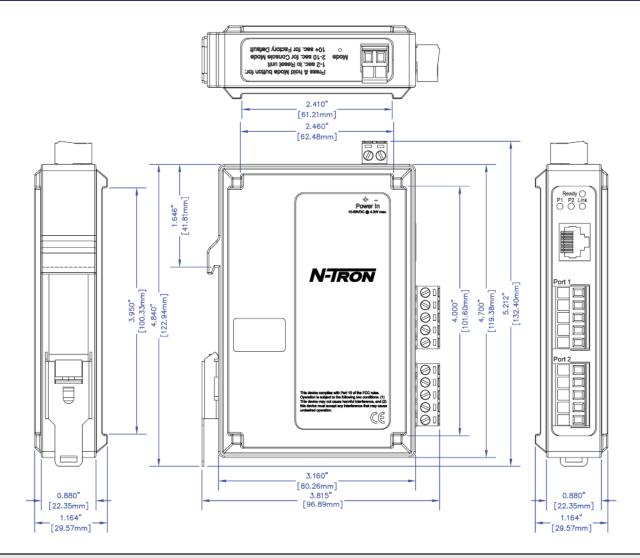
Identical Hard Coded Slaves



Ethernet Master with Serial Slaves

ESERV-M12T Specifications

= ISO 9001:2008 =



Ordering Information

ESERV-M12TModbus Ethernet to Serial Gateway with (2) Serial ports (TB connectors); (1) Ethernet port (RJ-45)ESERV-M12T-STModbus Ethernet to Serial Gateway with (2) Serial ports (TB connectors); (1) Ethernet Multimode
Fiber port (ST style connector)NTPS-24-1.3N-Tron Power Supply1.2 Amp @ 24VDC



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