

**По вопросам продаж и поддержки обращайтесь:**

Архангельск (8182)63-90-72	Краснодар (861)203-40-90	Санкт-Петербург (812)309-46-40
Астана (7172)727-132	Красноярск (391)204-63-61	Саратов (845)249-38-78
Астрахань (8512)99-46-04	Курск (4712)77-13-04	Севастополь (8692)22-31-93
Барнаул (3852)73-04-60	Липецк (4742)52-20-81	Симферополь (3652)67-13-56
Белгород (4722)40-23-64	Магнитогорск (3519)55-03-13	Смоленск (4812)29-41-54
Брянск (4832)59-03-52	Москва (495)268-04-70	Сочи (862)225-72-31
Владивосток (423)249-28-31	Мурманск (8152)59-64-93	Ставрополь (8652)20-65-13
Волгоград (844)278-03-48	Набережные Челны (8552)20-53-41	Сургут (3462)77-98-35
Вологда (8172)26-41-59	Нижний Новгород (831)429-08-12	Тверь (4822)63-31-35
Воронеж (473)204-51-73	Новокузнецк (3843)20-46-81	Томск (3822)98-41-53
Екатеринбург (343)384-55-89	Новосибирск (383)227-86-73	Тула (4872)74-02-29
Иваново (4932)77-34-06	Омск (3812)21-46-40	Тюмень (3452)66-21-18
Ижевск (3412)26-03-58	Орел (4862)44-53-42	Ульяновск (8422)24-23-59
Казань (843)206-01-48	Оренбург (3532)37-68-04	Уфа (347)229-48-12
Калининград (4012)72-03-81	Пенза (8412)22-31-16	Хабаровск (4212)92-98-04
Калуга (4842)92-23-67	Пермь (342)205-81-47	Челябинск (351)202-03-61
Кемерово (3842)65-04-62	Ростов-на-Дону (863)308-18-15	Череповец (8202)49-02-64
Киров (8332)68-02-04	Рязань (4912)46-61-64	Ярославль (4852)69-52-93
	Самара (846)206-03-16	

**Единый адрес:** [rno@nt-rt.ru](mailto:rno@nt-rt.ru) **Веб-сайт:** [www.redlion.nt-rt.ru](http://www.redlion.nt-rt.ru)

## Преобразователи ESERV-M12T RED LION. Техническое описание

## ▶▶▶ 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

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

#### Network

Serial Memory	8KB per port
Network Memory	4KB
IP Port Address	5300 - Heartbeat and configuration Setting in TCP mode (paired mode) 8888 - ESERV-M12T Update
Mac Address Table	2k

#### Network Communications

LAN	10/100 Mbps Auto-Detecting
-----	----------------------------

#### Network Physical Layer Standards

Ethernet	IEEE 802.3 auto detecting & auto MDI/MDX 10BaseT and 100BaseTX
----------	---

#### Protocols

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

#### Configuration Software

OS Compatibility	Windows 2000, 2003 Server, XP, Vista
------------------	--------------------------------------



### Fiber Optic Technology

Type/Wavelength	Multi-mode / 1310nm
Output Power	-19 to -14dBm
Receive Sensitivity	~ -32dBm
Cable	62.5 / 125um
Connector	ST
Range	1.2 Miles (2km)

### Other

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

### Power

Source	External
Input Voltage	10 to 58 VDC
Power Consumption	4.0 W
Power Connector	Removable Terminal Block
Wire Size Accepted	12 to 28 AWG

### Mechanical

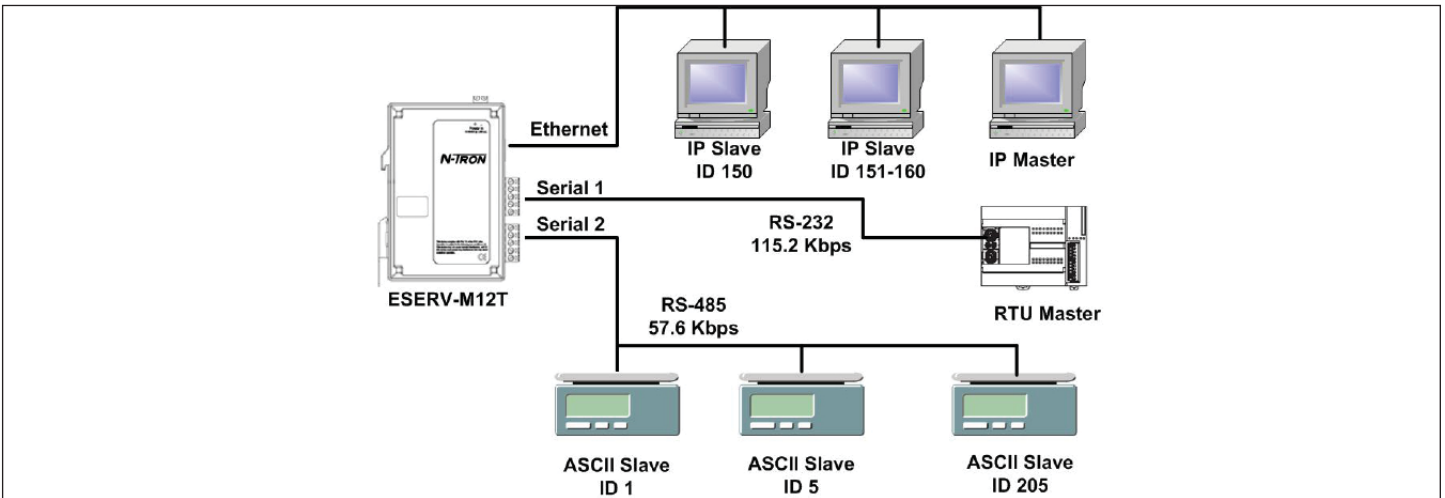
LED Indicators	Serial Port, Ethernet Link, Ready
Switches	Reset Button
Dimensions	1.2 x 3.2 x 4.7 in (3.0 x 8.1 x 11.9 cm)
Enclosure	IP 30 Plastic, 35 mm DIN Mount
Weight	0.33 lbs (149.7 g)
MTBF	132309 hours
MTBF Calc. Method	Parts Count Reliability Prediction

### Environmental

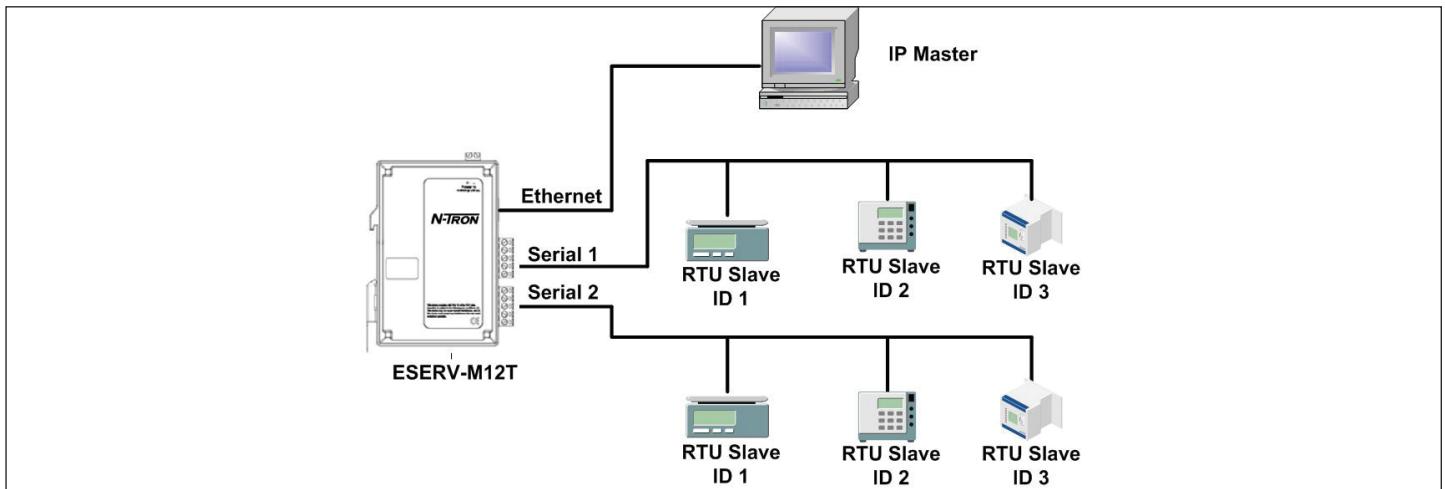
Operating Temperature	- 34 to 80°C (-29 to 176°F)
Storage Temp	- 40 to 85°C (-40 to 185°F)
Operating Humidity	0 to 95% Non-condensing

<b>Regulatory Approvals</b>	FCC, CE, UL 508
-----------------------------	-----------------

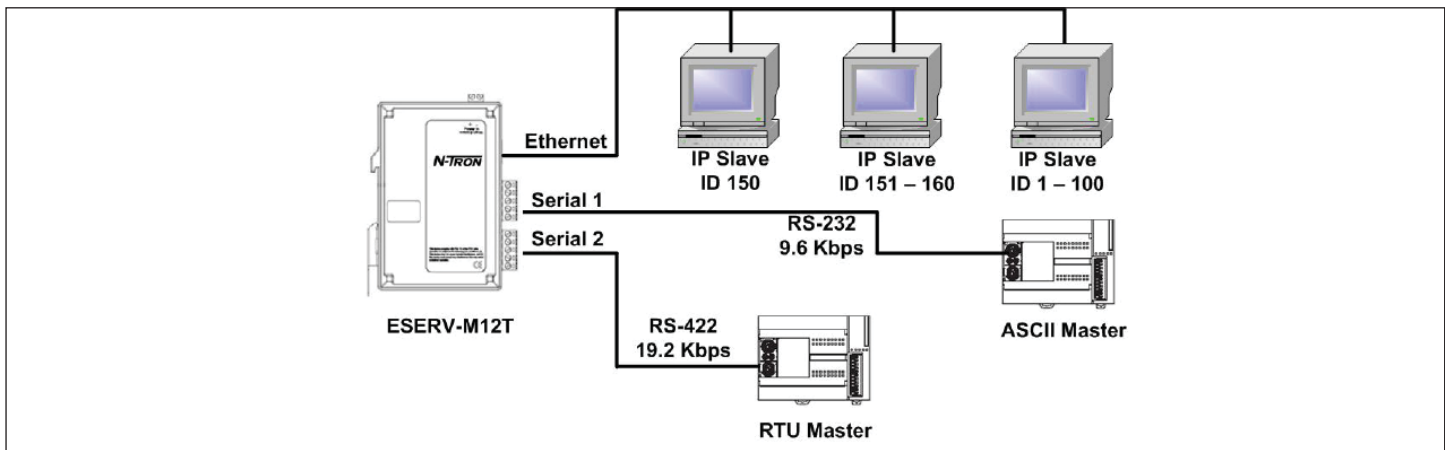
# ▶▶▶ ESERV-M12T Specifications



Serial Ethernet Masters - Serial Ethernet Slaves

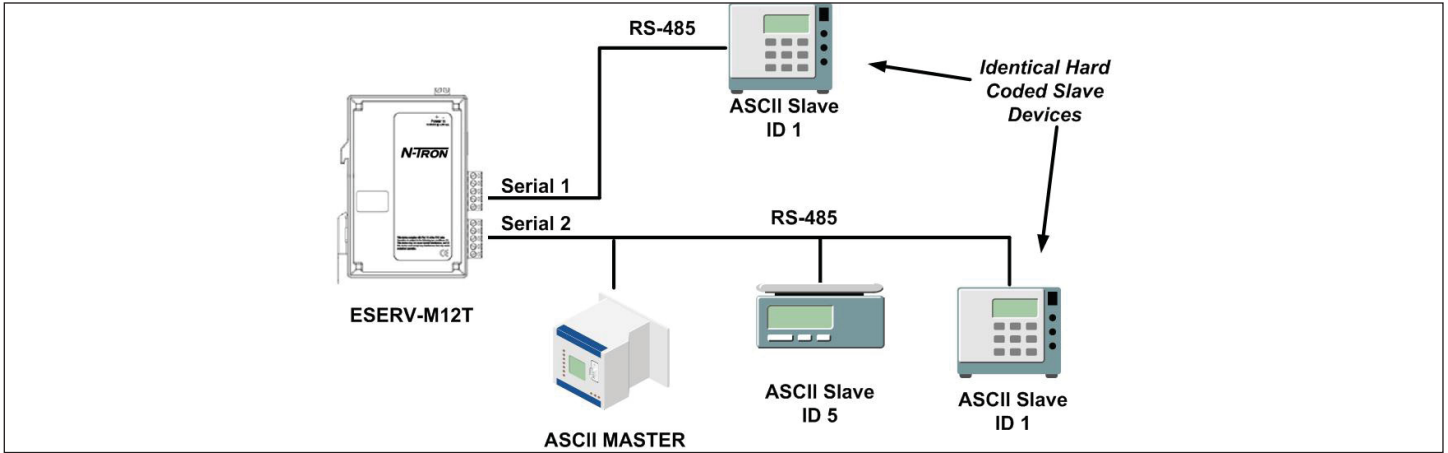


Identical Production Lines

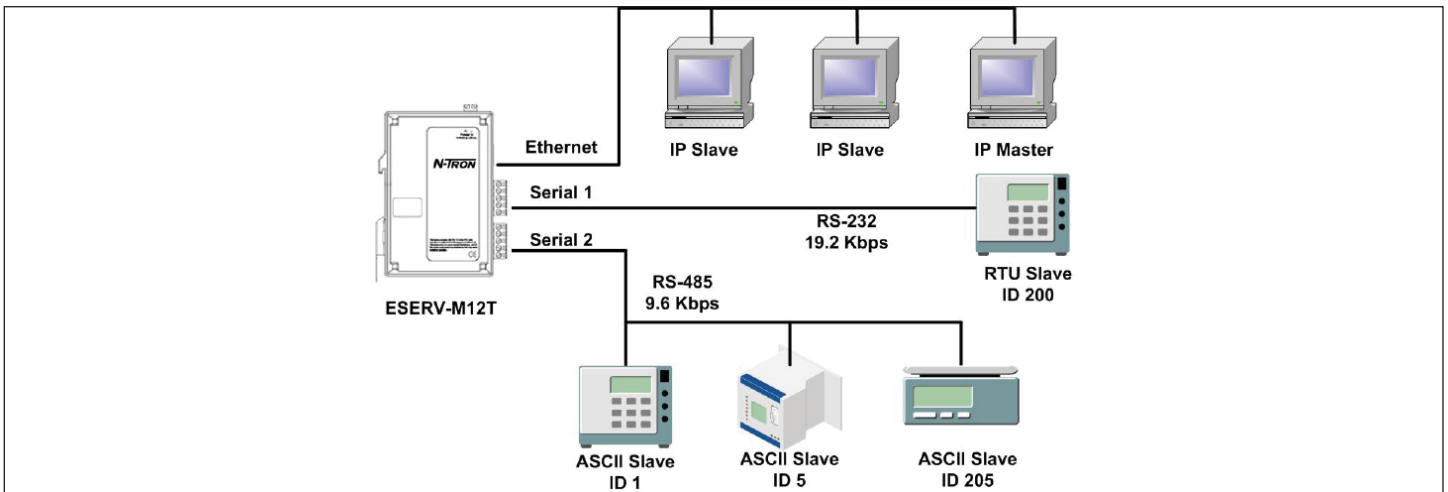


Serial Master - IP Slaves

# ▶▶▶ ESERV-M12T Specifications

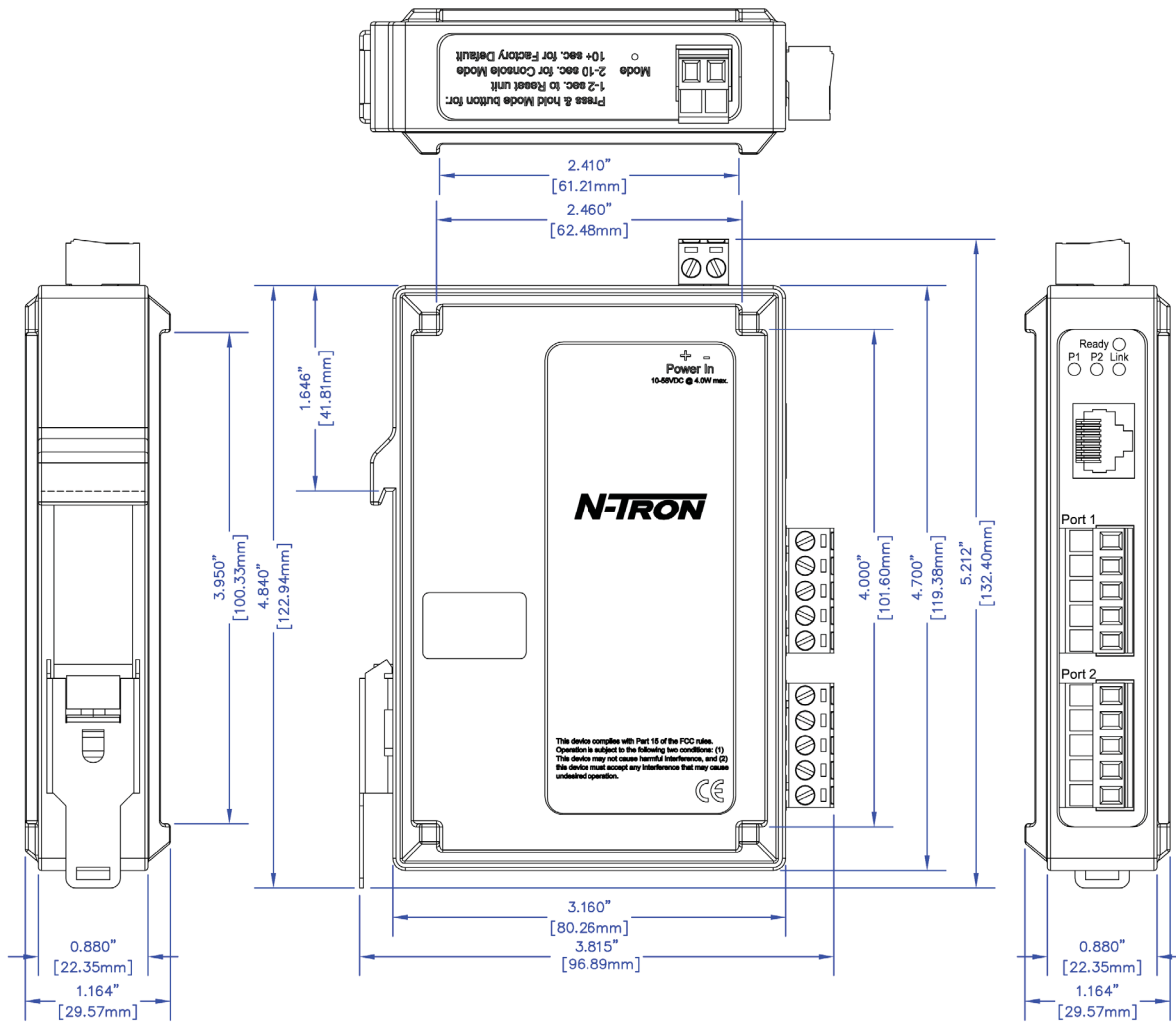


Identical Hard Coded Slaves



Ethernet Master with Serial Slaves

# ▶▶▶ ESERV-M12T Specifications



## Ordering Information

- ESERV-M12T Modbus Ethernet to Serial Gateway with (2) Serial ports (TB connectors); (1) Ethernet port (RJ-45)
- ESERV-M12T-ST Modbus Ethernet to Serial Gateway with (2) Serial ports (TB connectors); (1) Ethernet Multimode Fiber port (ST style connector)
- NTPS-24-1.3 N-Tron Power Supply 1.2 Amp @ 24VDC



**По вопросам продаж и поддержки обращайтесь:**

Архангельск (8182)63-90-72	Краснодар (861)203-40-90	Санкт-Петербург (812)309-46-40
Астана (7172)727-132	Красноярск (391)204-63-61	Саратов (845)249-38-78
Астрахань (8512)99-46-04	Курск (4712)77-13-04	Севастополь (8692)22-31-93
Барнаул (3852)73-04-60	Липецк (4742)52-20-81	Симферополь (3652)67-13-56
Белгород (4722)40-23-64	Магнитогорск (3519)55-03-13	Смоленск (4812)29-41-54
Брянск (4832)59-03-52	Москва (495)268-04-70	Сочи (862)225-72-31
Владивосток (423)249-28-31	Мурманск (8152)59-64-93	Ставрополь (8652)20-65-13
Волгоград (844)278-03-48	Набережные Челны (8552)20-53-41	Сургут (3462)77-98-35
Вологда (8172)26-41-59	Нижний Новгород (831)429-08-12	Тверь (4822)63-31-35
Воронеж (473)204-51-73	Новокузнецк (3843)20-46-81	Томск (3822)98-41-53
Екатеринбург (343)384-55-89	Новосибирск (383)227-86-73	Тула (4872)74-02-29
Иваново (4932)77-34-06	Омск (3812)21-46-40	Тюмень (3452)66-21-18
Ижевск (3412)26-03-58	Орел (4862)44-53-42	Ульяновск (8422)24-23-59
Казань (843)206-01-48	Оренбург (3532)37-68-04	Уфа (347)229-48-12
Калининград (4012)72-03-81	Пенза (8412)22-31-16	Хабаровск (4212)92-98-04
Калуга (4842)92-23-67	Пермь (342)205-81-47	Челябинск (351)202-03-61
Кемерово (3842)65-04-62	Ростов-на-Дону (863)308-18-15	Череповец (8202)49-02-64
Киров (8332)68-02-04	Рязань (4912)46-61-64	Ярославль (4852)69-52-93
	Самара (846)206-03-16	

**Единый адрес:** [rno@nt-rt.ru](mailto:rno@nt-rt.ru) **Веб-сайт:** [www.redlion.nt-rt.ru](http://www.redlion.nt-rt.ru)