

RS-485 LAN Converter for Modbus (Wide Range Power Supply)

LNX-506M-24V

LAN RS485 Modbus TB Double-isolated Surge protection
Non Chemi-con. Flame-retardant ABS

LNX-506M-24V is a Modbus converter that connects to RS-485 via LAN. It converts protocols from Modbus TCP to Modbus RTU/ASCII. The device can be operated as either a master or a slave. This allows Modbus devices to be connected over Ethernet. Modbus is used for both serial and Ethernet devices, but the physical connection and protocol are different, requiring protocol conversion for interconnection. LNX-506M-24V enables integration of Modbus TCP and Modbus RTU/ASCII networks. It supports a wide range of power input from DC 5 to 30V, and can be powered by DC 24V, which is commonly used in control panels.

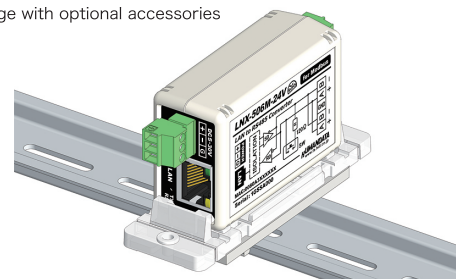


Features

- Possible to control RS-485 devices via Ethernet local area network
- Modbus TCP and Modbus RTU/ASCII protocols can be converted
- High-voltage insulation between LAN and RS-485 sides (DC 1500V transformer insulation + DC 3000V double insulation)
- 10BASE-T, 100BASE-TX Ethernet
- Supports Virtual COM port
- Tunneling mode is available by connecting with multiple LNX-506M-24V
- Power inputs: DC 5V to 30V
- Easy parameter setting via Ethernet by LNX SETTING TOOL
- Reliable industrial grade design
- ESD and surge protection
- Removable terminal block connector
- RoHS compliant (No use of 10 regulated substances)

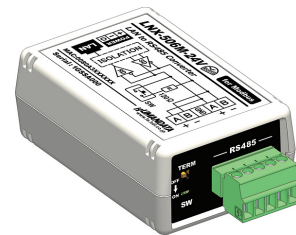
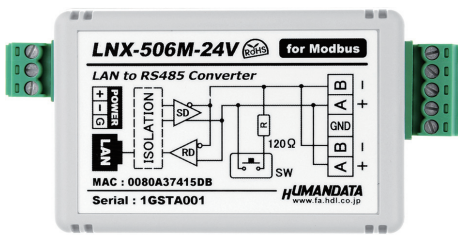
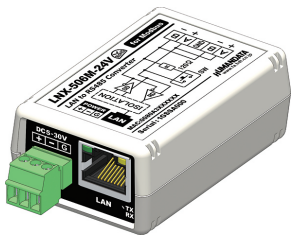
* There may be cases that these parts and specifications are changed.
* Power saving functions (suspend, standby, sleep and others) are not supported.

*Image with optional accessories



Package Contents

- LNX-506M-24V
- Driver & Application CD



Specification

Item	Description	Remarks
Model	LNX-506M-24V	
Power	DC5 to 30V	
Current Consumption	Less than 2W	
Network Interface	IEEE802.3 (10Base-T), IEEE802.3u (100Base-TX) half-duplex / full-duplex (auto detected)	
LAN Connector	RJ45	ESD 11kV Isolation over 1500VDC
Protocol	Modbus TCP	
Interface	RS-485, Half Duplex Communication (2 wire) Isolated from inner circuit (DC3000V)	ESD 15kV Double-isolated
Power Connector	3 position Terminal Block (PHOENIX CONTACT)	3.5mm pitch
RS-485 Connector	5 position Terminal Block (PHOENIX CONTACT)	3.5mm pitch
Baud Rate	300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 bps	
Data Bits	7 or 8 bits	
Stop Bits	1 or 2 bits	
Parity	Even, Odd, No parity	
Mode	Modbus RTU Master/Slave, Modbus ASCII Master/Slave	
Number of connectable devices	Up to 8 Modbus TCP masters can be connected simultaneously	Slave Mode
Slave address - IP address table	Up to 8 IP addresses can be registered for each slave address (ID) range	Master Mode
LED	RX: Reception LED / TX: Transmission LED LINK (RJ45 Connector) / ACT (RJ45 Connector)	
Operating Ambient Temperature	-20 to +60 °C (-4 to 140 [°F])	No condensation permitted
Operating Ambient Humidity	20 to 85 % RH	
Storage Ambient Temperature	-20 to +60 °C (-4 to 140 [°F])	
Storage Ambient Humidity	20 to 85 % RH	
Weight	Approx. 70 [g]	Only main body
Dimensions	67 x 43.5 x 27 [mm] (2.638" x 1.713" x 1.063")	Without projections

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Optional Accessories

PEN-003

Attachment with clamping screw

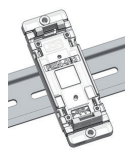
- Clamping screw type (mounting pitch: 84 [mm])
- Holes for fixing with cable ties are open
- Material: PP (polypropylene)



PEN-003-DIN

Attachment for 35mm DIN rail

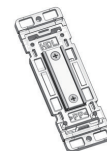
- 35mm DIN rail type
- Material: PP (polypropylene) and PBT (Poly Butylene Terephthalate)



PEN-003-MG

Attachment with neodymium magnet

- Neodymium magnet type
- Material: PP (polypropylene)
- Includes a Neodymium magnet



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