

HNT-1402-MB-X1 | 2-Port Industrial Modbus TCP/RTU/ASCII Gateway



FEATURE HIGHLIGHTS

- 2 x software-selectable RS-232/485/422 port
- 1 x 10/100Mbps RJ45 Fast Ethernet port
- Supports TCP server/client, UDP, Virtual COM and Tunneling
- Modbus TCP/RTU/ASCII
- Configuration via Web Server, Telnet, and Windows Utility
- Upgradable firmware via Ethernet from a remote-PC
- Rugged metal casing; industrial EMC protection
- Redundant dual DC power inputs for non-stop operation
- Optional DIN-Rail mounting

DESCRIPTION

Modbus Gateway supports the four most commonly used communication standards, RS-232/485/422, and Ethernet. The ease-of-use configuration utility provided with Modbus Gateway can quickly select the hardware interface, and easily switch to the existing communication infrastructure. Industrial EMC protection and wide temperature operation capability make HNT-1402-MB ready for every industrial critical mission.

Modbus Gateway supports the standard Modbus protocol and is capable of converting any Modbus protocols between Modbus TCP, Modbus RTU, and Modbus ASCII for all supported hardware interfaces.

Modbus Gateway supports various types of hardware communication interfaces, Modbus protocol conversion, and Modbus ID routing. Therefore the Modbus Gateway can integrate your existing and complex Modbus hardware configuration into a simple network that can be easily managed.

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SPECIFICATIONS

Network Interface	
Ethernet Port	1x 10/100BASE-T(X) RJ-45 or 1x100BASE-FX SFP Slot
Compliance	IEEE 802.3 for 10BASE-T IEEE 802.3u for 100BASE-T(X)
Serial Interface	
Connector	9-Pin D-Sub9 connector(Male, -DB version) or 5-Pin Terminal block (-TB version)
Ports	2
Mode	1x RS-232(Full-function DB9) / RS-422 / 2-wire RS-485, software selectable 1x RS-232 / RS-422 / 2-wire RS-485, software selectable
Baud Rate	1200~230,400 bps
Parity	None, Odd, Even, Space, Mark
Data Bits	7,8
Stop Bits	1,2
Flow Control	None, Xon/Xoff, RTS/CTS (RS-232 only)
Power Characteristics	
Connector	3-Pin 5.08mm Lockable Terminal Block and DC Jack for redundancy
Input Voltage	3-Pin 5.08mm Lockable Terminal Block: 9-30VDC; DC Jack 5VDC
Power Consumption	<9W
Power Redundancy	Yes
Reverse Polarity Protection	Yes
Mechanicals	
Dimensions(W x D x H)	75 mm x 85 mm x 28 mm (without wall-mount part) 1402-TB/1402-Sis: 74.5 x 108.2 x27.5mm (with wall-mount part) 1402-DB: 80.3 x 108.2 x27.5mm (with wall-mount part and DB9 connector) 1402-SFP-TB: 76.6 x 108.2 x 27.5mm (with wall-mount and SFP) 1402-SFP-DB: 81.4 x 108.2 x 27.5mm (with wall-mount SFP and DB9)
Installation	Wall-Mount or DIN-Rail (optional kit)
Reset Button	Yes
Weight	200g
Environmental Limits	
Operating Temperature	-40°C ~ 70°C (-40°F ~ 158°F)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Ambient Relative Humidity	5 ~ 95% RH, (non-condensing)

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SPECIFICATIONS

Software

Protocols	TCP, IPv4, UDP, DHCP Client, HTTP, HTTPS, Telnet, ARP, SNMPv1,v2c,v3
Configuration	Management Utility, Web UI, Telnet, CLI
VirtualCOM	Windows/Linux redirection software
Modbus	TCP/RTU/ASCII
TCP Client	Single destination or VirtualCOM
TCP Server	4 Connections; VirtualCOM or reverse Telnet
UDP	Up to 4 Ranges IP

Approvals

safety	EN62368-1
EMC	FCC Part 15, Subpart B, Class A EN 55032, EN61000-6-4
	EN 61000-3-2
	EN 61000-3-3
	EN 55024, EN61000-6-2

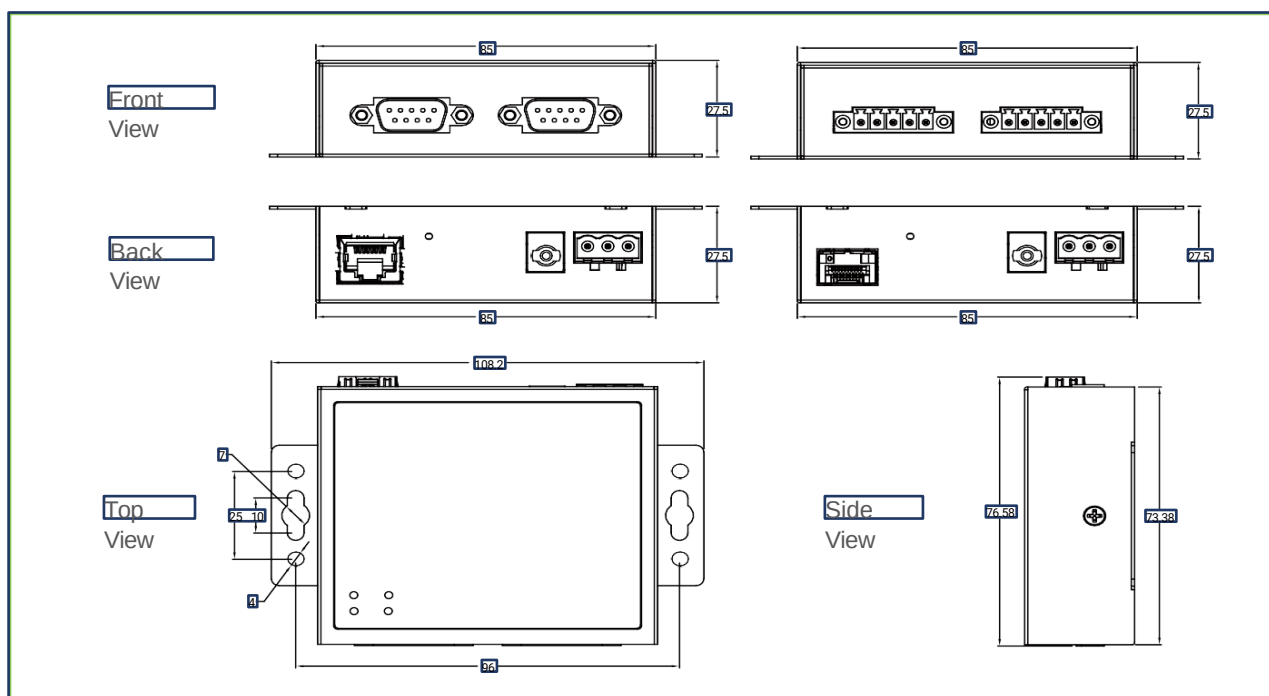
Test	Item		Value	Level
IEC 61000-4-2	ESD	Contact Discharge	±4KV	2
		Air Discharge	±8KV	3
IEC 61000-4-3	RS	80-1000MHz	10(V/m)	3
IEC 61000-4-4	EFT	AC Power Port	±2.0KV	3
		DC Power Port	±1.0KV	3
		Signal Port	±1.0KV	3
IEC 61000-4-5	Surge	AC Power Port	Line-to Line±1.0KV	3
		AC Power Port	Line-to Earth±2.0KV	3
		DC Power Port	Line-to Line ±0.5KV	2
		DC Power Port	Line-to Line ±0.5KV	1
		Signal Port	Line-to Earth±1.0KV	2
IEC 61000-4-6	CS	0.15-80MHz	10 Vrms	3
IEC 61000-4-8	PFMF	Enclosure	30A/m	3
IEC 61000-4-11	DIP	AC Power Port		

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SPECIFICATIONS

Shock	MIL-STD-810F Method 516.5
Drop	MIL-STD-810F Method 516.5
Vibration	MIL-STD-810F Method 514.5 C-1 & C-2
RoHS	Yes
MTBF	TBD
Warranty	5 years

DIMENSIONS



ORDERING INFORMATION

Model name	Description
HNT-1402-MB-X1(DB)	2-Port Modbus TCP/RTU Gateway, RS-232/422/485, DB9(M)
HNT-1402-MB-X1(TB)	2-Port Modbus TCP/RTU Gateway, RS-232/422/485, Terminal Block
HNT-1402-MB-X1(SiS)	2-Port Entry-Level Modbus Gateway, RS-232/422/485, 2kV Isolation, Terminal block
HNT-1402-MB-X1(SFP DB)	2-Port Entry-Level Modbus Gateway, RS-232/422/485, DB9(M)
HNT-1402-MB-X1(SFP TB)	2-Port Entry-Level Modbus Gateway, RS-232/422/485, Terminal block