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RELIABLE SECURE CONNECTIVITY

XME5201 Series

Compact 1-Port Industrial Modbus Protocol Gateway



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Compact 1-Port Industrial Modbus Protocol Gateway

FEATURE HIGHLIGHTS

- 1 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 modes
- Modbus TCP/RTU/ASCII
- Configuration via Web Server page, Telnet Console, 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

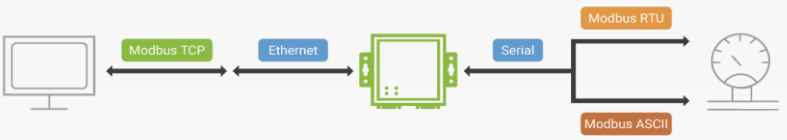
PRODUCT DESCRIPTION

Diverse Hardware Infrastructure

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 XME5201 ready for every mission.

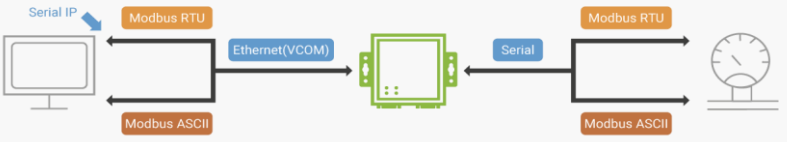
Switching between Modbus Protocols

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 ID Routing

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.



PRODUCT SPECIFICATIONS

Network Interface	
Ethernet Port	1x 10/100BASE-T(X) RJ-45
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	1
Mode	RS-232/RS-485(2 and 4 wire)/RS-422, software selectable
Baud Rate	1200~230,400 bps (RS-485 4-wire allows up to 921,600 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 Power Consumption Power Redundancy	3-Pin 5.08mm Lockable Terminal Block: 9-30VDC; DC Jack 5VDC <9W Yes
Reverse Polarity Protection	Yes
Mechanicals	
Dimensions (W x D x H)	65mm x 78mm x 28mm (without wall-mount part) XME5201-TB: 88.5 x 78.3 x 27.8mm (with wall-mount part) XME5201-DB: 88.5 x 84 x 27.8mm (with wall-mount part and DB9 connector)
Installation	Wall-Mount or DIN-Rail (optional kit)
Reset Button	Yes
Weight	185g
Mechanicals	
Dimensions (W x D x H)	65mm x 78mm x 28mm (without wall-mount part) XME5201-TB: 88.5 x 78.3 x 27.8mm (with wall-mount part) XME5201-DB: 88.5 x 84 x 27.8mm (with wall-mount part and DB9 connector)
Installation	Wall-Mount or DIN-Rail (optional kit)
Reset Button	Yes
Weight	185g
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)

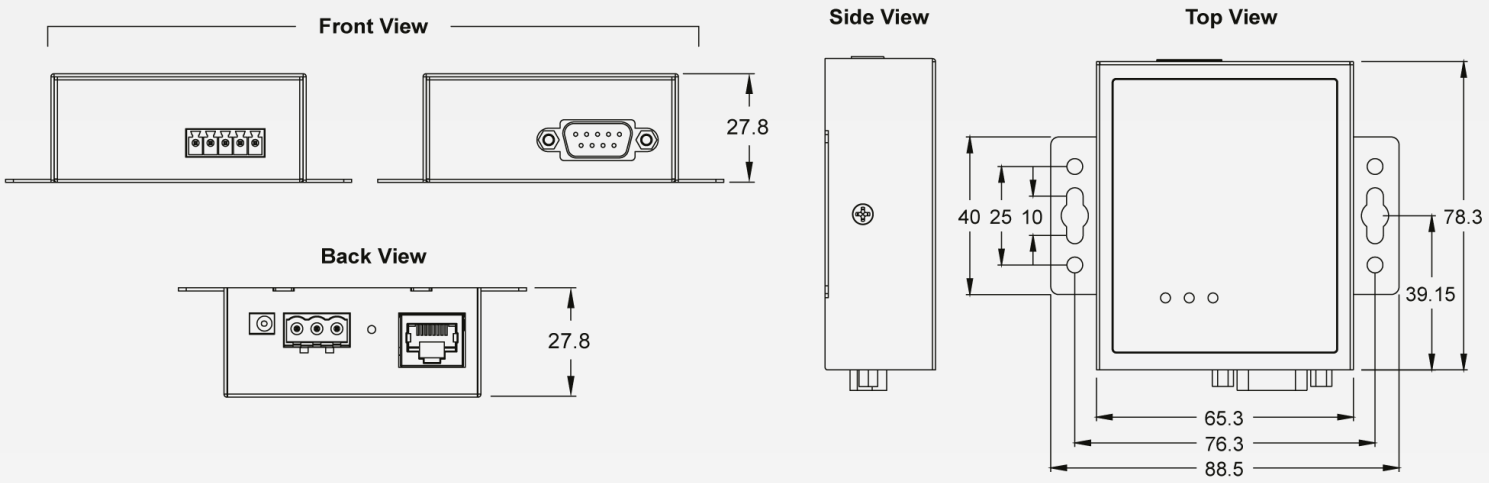
Software	
Protocols	TCP, IPv4, UDP, DHCP Client, HTTP, HTTPS, Telnet, ARP, SNMPv1,v2c,v3
Configuration	Agatel Management Utility, Web UI, Telnet, CLI
VirtualCOM	Windows/Linux redirection software
Modbus	TCP/RTU/ASCII
TCP Client	Single destination or VirtualCOM
TCP Server	4 Connections; VirtualCOM or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

REGULATORY APPROVALS

Approvals	
Safety	EN 60950-1 / 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 Air Discharge	±4KV ±8KV	3 3
IEC 61000-4-3	RS	80-1000MHz	10(V/m)	3
IEC 61000-4-4	EFT	AC Power Port DC Power Port Signal Port	±2.0KV ±1.0KV ±1.0KV	3 3 3
IEC 61000-4-5	Surge	AC Power Port AC Power Port Signal Port	Line-to Line±1.0KV Line-to Earth±2.0KV Line-to Earth±1.0KV	3 3 3
IEC 61000-4-6	CS	0.15-80MHz	10 Vrms	3
IEC 61000-4-8	PFMF	Enclosure	10A/m	3
IEC 61000-4-11	DIP	AC Power Port	>95%,Reduction,0.5period 30%, Reduction,25 period >95%,Reduction,250 period	-
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	25.29 years according to MIL-HDBK-217F, 25 degrees C			
Warranty	5 years			

DIMENSIONS & LAYOUT



ORDERING INFORMATION

Model Name	Description
XME5201-DB	1-Port Modbus TCP/RTU Gateway, industrial EMC protection, RS-232/422/485, DB9(M)
XME5201-TB	1-Port Modbus TCP/RTU Gateway, industrial EMC protection, RS-232/422/485, Terminal Block

OPTIONAL ACCESSORIES

Model Name	Description
XPA-315-12-Y-LV6-US	Y-Type power adapter, 100~240VAC input, 1.25A @12VDC output, US plug
XPA-315-12-Y-LV6-EU	Y-Type power adapter, 100~240VAC input, 1.25A @12VDC output, EU plug
XPA-305-05-DC-LV6-US	DC jack (3.5/1.35/7.5 mm) power adapter, 100~240VAC input, 1.0A @ 5 VDC output, US plug, LV6
XPA-305-05-DC-LV6-EU	DC jack (3.5/1.35/7.5 mm) power adapter, 100~240VAC input, 1.0A @ 5 VDC output, EU plug, LV6
XPA-305-05-DC-LV6-UK	DC jack (3.5/1.35/7.5 mm) power adapter, 100~240VAC input, 1.0A @ 5 VDC output, UK plug, LV6
XCA-DB9-TB5	Female DB9 to Female 3.81mm TB5 Converter
ADP-DB9(M)-DB9(F)	XME52XX DB9 Pin assignment to XME50XX DB9 Pin assignment
XDK-25-P-SE	Plastic DIN Rail Kit

WHO WE ARE

Built on 20 years of experience in designing and manufacturing industrial networking products, **Agatel** was established from the UK to serve the infrastructure and industrial sectors in EMEA markets with reliable connectivity for mission-critical systems in demanding environments.

Experienced in hardware and software design and integration, we produce high-quality yet cost-effective industrial networking and communication products with great customization capabilities and robust implementations, equipping our customers for reliable secure industrial networks.

WHAT WE OFFER

The needs of our customers' industry are different from those of corporate IT environments – industrial operating environments are tough and the impact of failure in the field can lead to business threatening situations, hence our products will have lifetimes in excess of 20 years.

From entry-level to high-performance industry-certified hardware, **Agatel** offers a full solution spectrum to suit our customers' budgets and application requirements, with features such as industrial-grade reliability, integrated security, network redundancy, and advanced performance.

Our product solution profile includes industrial Ethernet switches, network time servers, media converters, industrial wireless devices, and serial device servers, covering a wide array of mission-critical applications such as automation, security, transport, water, oil and gas, and power grids.

WHY CHOOSE US

We help our customers reduce downtime and operational costs of their industrial applications in harsh environments. Leading system integrators in EMEA rely on our niche technical expertise and product quality to increase their applications' robustness, revenues, and competitive differentiation.

Agatel ruggedized high-quality solutions are designed to deliver zero-network-downtime for harsh project demands, allowing for reliable connectivity to keep people and assets safe and secure in harsh and hazardous environments, and allowing customers to focus on growing their business.

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