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RELIABLE SECURE CONNECTIVITY

XSC5201 Series

1-Port Semi-industrial Serial Server



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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
- Configuration via Web Server page, Telnet Console, and Windows Utility
- Upgradable firmware via Ethernet from a remote-PC
- Rugged metal casing; semi-industrial EMC protection
- Optional DIN-Rail mounting

PRODUCT DESCRIPTION

Despite Ethernet having become the new backbone standard of Industrial Automation, Serial devices still remain highly relevant today, with numerous devices installed on sites worldwide. So with Agatel's XSC5201 Series, you can transform any serial device into an Ethernet-capable one, allowing you to control and monitor your legacy serial devices via your LAN or WAN – or even over the internet.

With such connectivity, the amount of time required to configure or troubleshoot a serial device located on a factory floor or in a remote location is eliminated. And with such Ethernet-based connectivity, serial devices can be integrated into modern practices such as Industry 4.0 and IIoT, allowing you to extend their lifetime and avoid wholesale device upgrades in the near future.

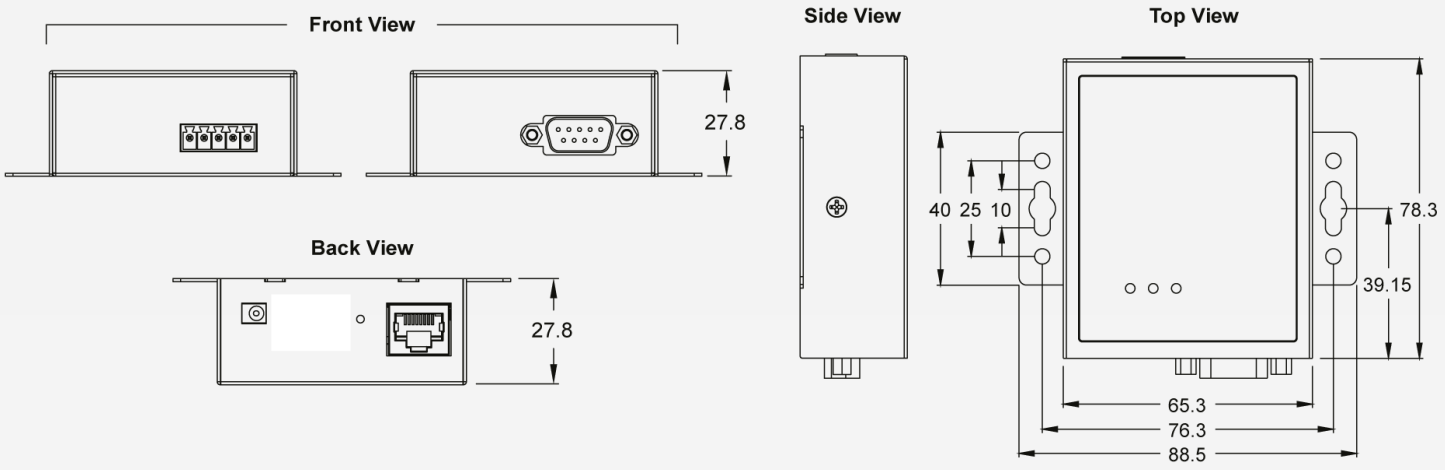
Featuring 1 x software-selectable Serial Port and 1 x RJ45 Port, the XSC5201 Series is a simple-to-install device, with easy configurations options such as Telnet, Web browser, or other Windows utilities. And using the VirtualCOM software, Windows-based applications can access serial devices by mapping the virtual com ports to the XSC5201 serial server series.

Encased in a rugged metal housing offering semi-industrial EMC protection, the XSC5201 Series is ideal for semi-industrial environments where reliability is a must, such as Warehouses, Barcode Scanners, Data Terminals, Electronic Kanbans, Shop Floor Control Systems, and Pick-to-Light Systems.

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	DC Jack
Input Voltage **Power Consumption Power Redundancy**	DC Jack 5VDC <2W No
Reverse Polarity Protection	Yes
Mechanicals	
Dimensions (W x D x H)	65mm x 78mm x 28mm (without wall-mount part) XSC5201-TB: 88.5 x 78.3 x 27.8mm (with wall-mount part) XSC5201-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
TCP Client	Single destination or VirtualCOM
TCP Server	4 Connections; VirtualCOM or reverse Telnet
UDP	Up to 4 Ranges IP

DIMENSIONS & LAYOUT



Regulatory Approvals	
Safety	EN 60950-1/EN62368-1
EMC	FCC Part 15, Subpart B, Class A EN 55032, EN 61000-3-2 EN 61000-3-3 EN 55024

Test	Item		Value	Level
IEC 61000-4-2	ESD	Contact Discharge Air Discharge	±4kV ±8kV	2 3
IEC 61000-4-3	RS	80-1000MHz	3(V/m)	2
IEC 61000-4-4	EFT	AC Power Port DC Power Port Signal Port	±1.0kV ±1.0kV ±0.5kV	2 2 2
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±2.0KV	3 3 3
IEC 61000-4-6	CS	0.15-80MHz	3 Vrms	2
IEC 61000-4-8	PFMF	Enclosure	1A/m	2
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	54.58 years according to MIL-HDBK-217F, 25 degrees C			
Warranty	5 years			

ORDER INFORMATION

Model name	Description
XSC5201-DB	1-Port Semi-industrial Serial Server, 10/100BASE-T(X), RS232/422/485 DB9
XSC5201-TB	1-Port Semi-industrial Serial Server, 10/100BASE-T(X), RS232/422/485 TB5

OPTIONAL ACCESSORIES

Model name	Description
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)	SE_MB52XX DB9 Pin assignment to SE_MB50XX 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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