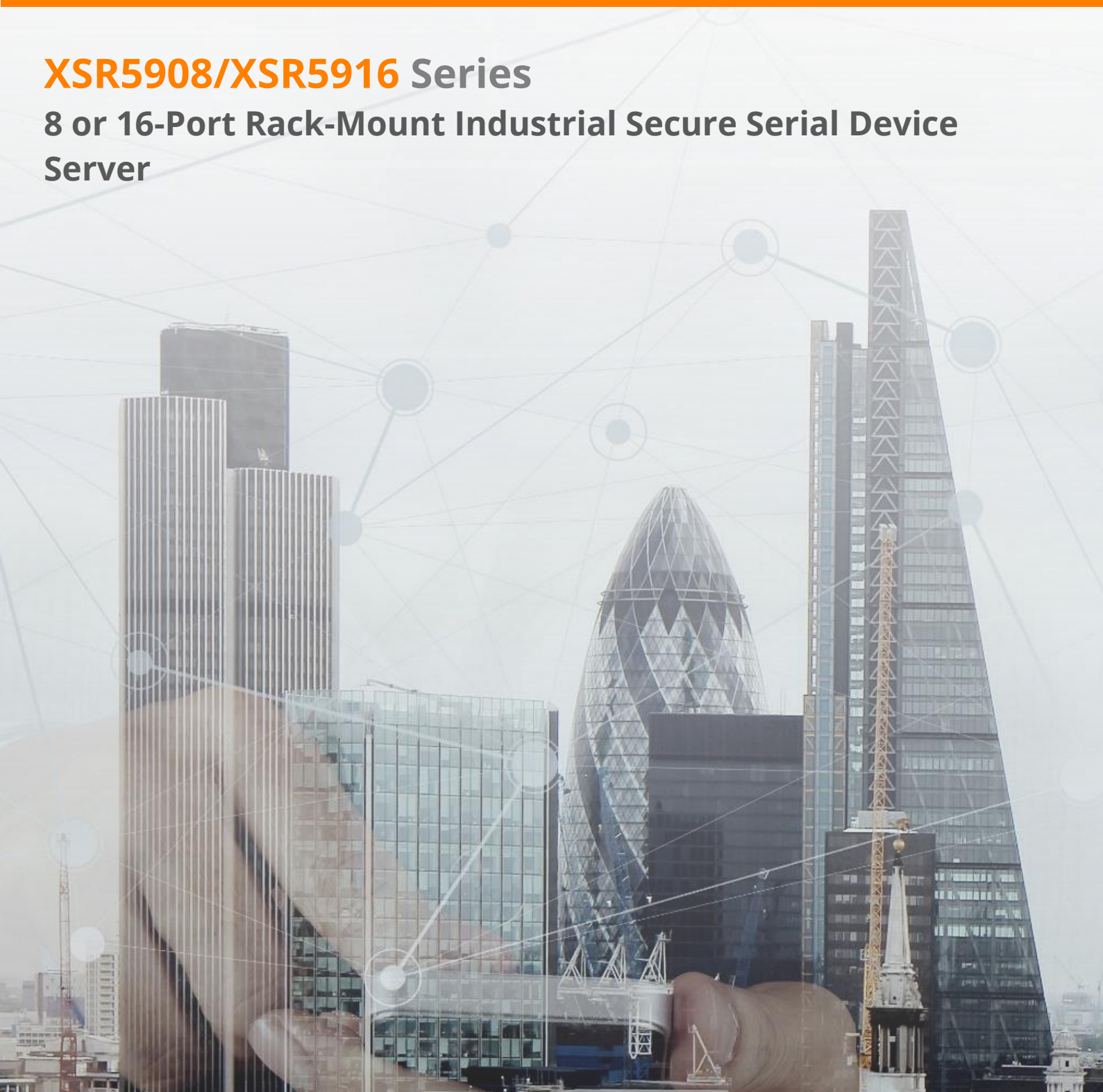


RELIABLE SECURE CONNECTIVITY

XSR5908/XSR5916 Series

8 or 16-Port Rack-Mount Industrial Secure Serial Device Server





XSR5908/XSR5916 Series

8 or 16-Port Rack-Mount Industrial Secure Serial Device Server



FEATURE HIGHLIGHTS

- Remotely monitor, manage, and control industrial field devices
- Industrial EMC protection, Opt. Serial port Isolation, -20°C~70°C operation
- 2 Fast-Ethernet ports, dual-subnet or RSTP redundancy
- 8/16 sw-selectable RS-232/485/422 (*) RJ45 serial ports, up to 921kbps
- 24~48 VDC Power Input or 100~240 VAC Power input (EU or US version)
- TCP Server/Client, UDP, Virtual COM and Tunneling modes supported
- Supports SNMPv1/v2c/v3, Embedded security with IPsec and OpenVPN
- Configuration via Web Browser / Serial Console / Telnet Console / Windows Utility / LCM Matrix
- Integrated RSTP redundancy



PRODUCT DESCRIPTION

Make Serial Devices Ready to the Network

The Industrial Serial Device Server XSR5908/16 is an advance gateway for Ethernet (TCP/IP) and serial signal communications; allowing any serial device to be connected to a new or existing Ethernet network. By encapsulating serial data and transporting it over Ethernet (both copper and fiber), offers full-duplex and bi-directional data seamlessly between the four available serial ports and the Ethernet network.

Security and Redundancy

XSR5908/XSR5916 embeds OpenVPN and IPsec VPN, that allows you to tunnel your data securely throught the internet and prevent unauthorized control of your Serial Devices by malicious people. The integrated Rapid Spanning Tree Protocol (RSTP), allows you to add a backup Ethernet link in the event the primary one fails.

Easy to Use

Flexible configuration options enable this unit to be setup over Ethernet by Telnet, Web Browser, Serial Console, LCM display or our Windows Utility. Packed in a rugged metal housing for 19" Racks, it is ideal for almost any industrial and manufacturing automation process. Agatel Virtual COM software provides a virtual environment for applications when accessing the device through TCP.

Specifically Designed for Automation Fields

In industrial and manufacturing automation fields, XSR5908/16 is used as a field device to connect the Ethernet through TCP/IP protocol directly. It is also specially designed for conjunction with PLCs, HMIs, Barcode Scanners, Data Terminals, and much more.

Rugged and flexible for advanced developments

XSR5908/16 embeds high EMC protection, programming and installation flexibility in one device. Our SDK versions allow you to make use of the powerful hardware and develop your own applications on top of AGATEL's reliable SDK. For more information about it, please ask AGATEL representative

* : RS-232/RS-485-RS-422 function is available on non-isolated versions. Isolated versions support RS-485 and RS-422 only



PRODUCT SPECIFICATIONS

Technical Specifications	
Model Name	XSR5908/XSR5916
Network interface	
Speed	IEEE 802.3 10BaseT IEEE 802.3u 100BaseT(X)
LAN Mode	Dual Subnets or Network Redundancy
Connector ports	2x 10/100BASE-T(X) RJ-45
Serial Interface	
Connector	RJ45 RS-232/422/485 software selectable (-N models) or RJ45 Isolated RS-422/485 software selectable (-SiS models)
Ports	8 (XSR5908) or 16 (XSR5916)
Baud Rate	1,200 ~ 921,600 bps software selectable
Data Bits	5, 6, 7, 8 software selectable
Stop Bits	1, 2 software selectable
Parity	None, Odd, Even, Space, Mark
Flow Control	None, Xon/Xoff, RTS/CTS (RS-232 only)
Isolation	2.5 kV (-SiS models only)
Power	
Input Voltage Input Current Power Consumption	DC version: 24 - 48VDC; US-EU version: 100~240 VAC (EU or US Plug)DC version: 0.54 A @24VDC; US-EU version: 0.21A@100VAC Approximately 21 W (Max)
Connector	DC version: 5.08mm 3-pin Lockable Terminal BlockEU-US version: IEC 60320-1 C14 AC Power Inlet
Power Redundancy	No
Reverse Polarity Protection	Yes (DC version only)
Relay Output	Yes (1)
Physical Characteristics	
Housing Dimension (W x H x D)Weight Installation Reset Button	IP30 SPCC housing 436 mm x 43.5 mm x 200 mm 3,000g (8-port version); 3,200 g (16-port version)19" Rack-Mount (Kit included) Yes
Environmental Limits	
Operating Temperature Storage Temperature Ambient Relative Humidity	-20°C~70°C (-4°F~158°F) -40°C~85°C (-40°F~185°F) 5%~95% (Non-condensing)
Software	
Protocols	IPv4, ICMP, TCP, UDP, DHCP Client, SNMPv1,v2c,v3, HTTP, HTTPS, SMP/TLS,Telnet, RFC2217, RSTP, Security through OpenVPN and IPsec (host-to-host or host-to-side) with up to 37.9Mbps VPN throughput, and PPTP
Configuration	Agatel Management Utility, Web UI, Telnet, Serial Console
VirtualCOM	Windows/Linux redirection software
Link Modes	
TCP Client	Dual destination supports raw-data or VirtualCOM
TCP Server	4 Connections mode supports raw-data; VirtualCOM or reverse Telnet
UDP	Up to 4 Ranges IP





REGULATORY APPROVALS

Approvals

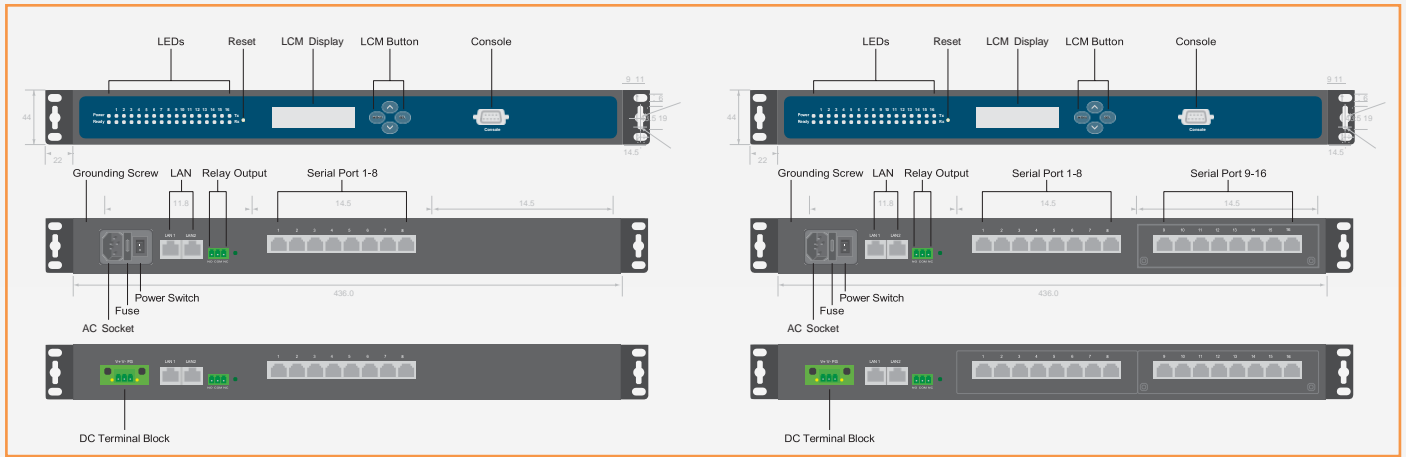
Safety EN60950-1:2006/ IEC60950-1 LVD

EMC FCC Part 15, Subpart B, Class B
EN 55022, Class B, EN 61000-3-2, EN 61000-3-3, EN 55024

Test	Item	Value	Level
IEC 61000-4-2	ESD	Contact Discharge	±8kV
		Air Discharge	±15kV
IEC 61000-4-3	RS	Radiated (enclosure)	10 V/m
IEC 61000-4-4	EFT	AC Power Port	±4.0KV
		DC Power Port	±4.0KV
		Signal Port	±2.0KV
IEC 61000-4-5	Surge	AC Power Port	Line-to Line±2.0KV
		AC Power Port	Line-to Earth±4.0KV
		DC Power Port	Line-to Line±1.0KV
		DC Power Port	Line-to Earth±2.0KV
		Signal Port	Line-to Earth±2.0KV
IEC 61000-4-6	CS	AC Power Port	10 V rms
		DC Power Port	10 V rms
		Signal Port	10 V rms
			10 V rms
IEC 61000-4-8	PFMF	Enclosure	1 A/m
IEC 61000-4-11	DIP	AC Power Port	-
Shock Drop (Freefall) /Vibration	IEC 60068-2-27 ISTA Test Procedure 2A /IEC 60068-2-64		
RoHS II	Yes		
MTBF (MIL-HDBK-217F)	XSR5908-DC: 22.74 years; XSR5916-US/EU: 13.95 years; XSR5908-SI-DC: 19.00 years; XSR5908-SI-US/EU: 19.03 years; XSR5916-SI-DC: 13.38 years; XSR5916-SI-US/EU: 13.38 years		
Warranty	5 years		



DIMENSIONS & LAYOUT



ORDERING INFORMATION

Model name	Description	Ethernet	Serial
XSR5908-DC	8-Port Serial Device Server, RJ45, RS232/422/485 DC	2 (RJ45)	8 (RJ45)
XSR5908-SI-DC	8-Port Serial Device Server, RJ45, Isolated RS422/485 DC	2 (RJ45)	8 (RJ45)
XSR5916-DC	16-Port Serial Device Server, RJ45, RS232/422/485 DC	2 (RJ45)	16 RJ45
XSR5916-SI-DC	16-Port Serial Device Server, RJ45, Isolated RS422/485 DC	2 (RJ45)	16 RJ45
XSR5908-EU	8-Port Serial Device Server, RJ45, RS232/422/485 EU Plug	2 (RJ45)	8 (RJ45)
XSR5908-US	8-Port Serial Device Server, RJ45, RS232/422/485 US Plug	2 (RJ45)	8 (RJ45)
XSR5916-EU	16-Port Serial Device Server, RJ45, RS232/422/485 EU Plug	2 (RJ45)	16 RJ45
XSR5916-US	16-Port Serial Device Server, RJ45, RS232/422/485 US Plug	2 (RJ45)	16 RJ45
XSR5908-SI-EU	8-Port Serial Device Server, RJ45, Isol. RS422/485 EU Plug	2 (RJ45)	8 (RJ45)
XSR5908-SI-US	8-Port Serial Device Server, RJ45, Isol. RS422/485 US Plug	2 (RJ45)	8 (RJ45)
XSR5916-SI-EU	16-Port Serial Device Server, RJ45, Isol. RS422/485 EU Plug	2 (RJ45)	16 RJ45
XSR5916-SI-US	16-Port Serial Device Server, RJ45, Isol. RS422/485 US Plug	2 (RJ45)	16 RJ45



OPTIONAL ACCESSORIES

Model name	Description
XDP-75-24	75W/3.2A DIN-Rail 24VDC power supply with 88~264VAC / 124~370VDC input
AD17-24C (US-Y)	Y-Type power adaptor, 100-240VAC input, 0.6A @ 24VDC output, US plug
AD17-24D (EU-Y)	Y-Type power adaptor, 100-240VAC input, 0.6A @ 24VDC output, EU plug
GDC-120	120mm copper woven grounding cable
XSC-RJ45-DB9-90-M	RJ45 to DB9 Male Cable, 90cm
XSC-RJ45-DB9-200-M	RJ45 to DB9 Male Cable, 200cm
XSC-RJ45-DB9-90-F	RJ45 to DB9 Female Cable, 90cm
XCC-RJ45-DB9-90-F	RJ45 to DB9 Female Cross Over Cable, 90cm
XCC-RJ45-DB9-200-F	RJ45 to DB9 Female Cross Over Cable, 200cm
XRK-718-BK	Rack Mount Mounting-Kit, Black
XPC-US	6 feet Power Cable, US
XPC-EU	6 feet Power Cable, EU
Fuse	SFP Transceiver, 1250Mbps, 1310nmDFB, Single-mode, 30km, 3.3V, -40~85°C





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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