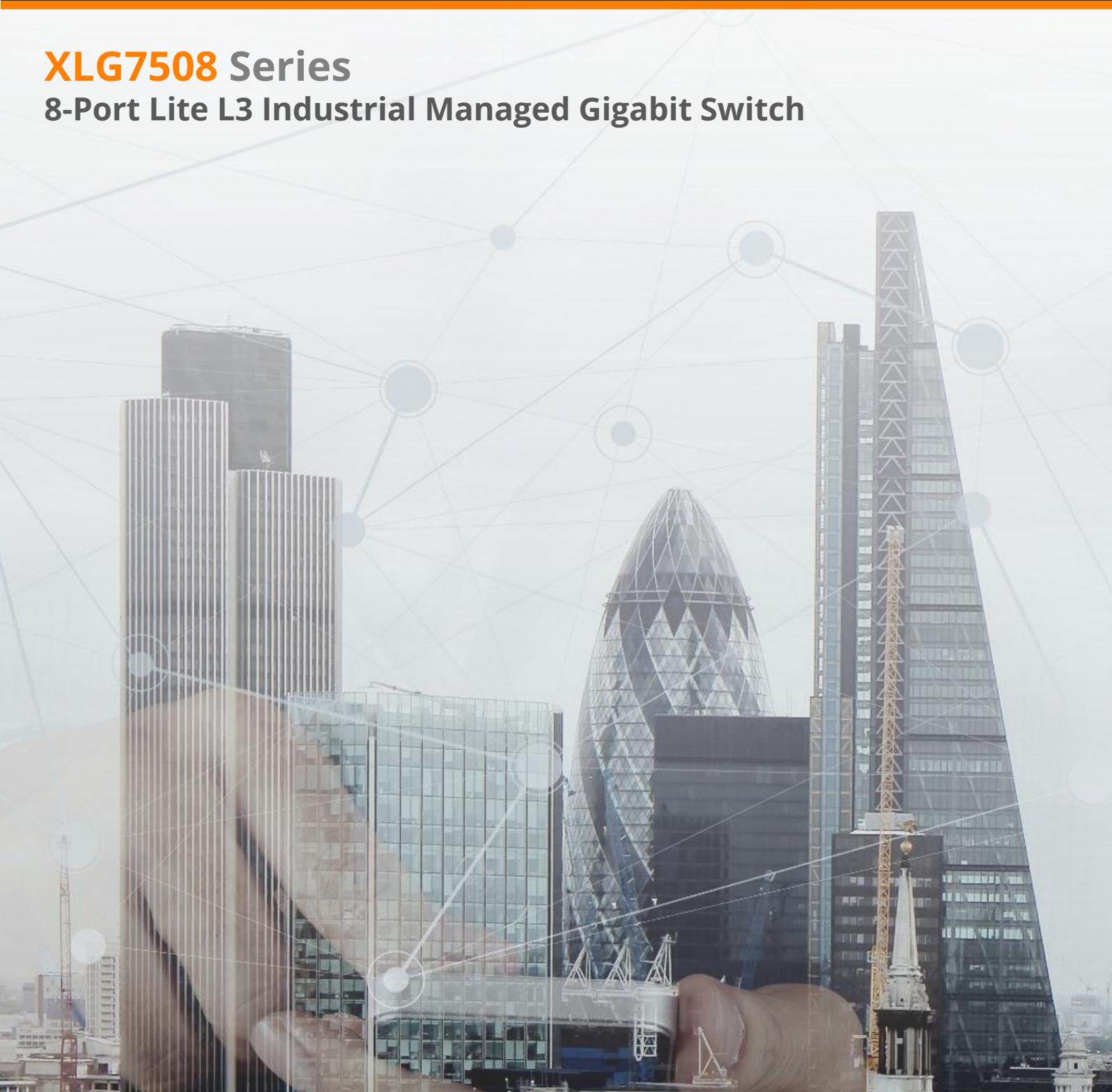


# RELIABLE SECURE CONNECTIVITY

**XLG7508 Series**

**8-Port Lite L3 Industrial Managed Gigabit Switch**





## XLG7508 Series

### 8-Port Lite L3 Industrial Managed Gigabit Switch



#### FEATURE HIGHLIGHTS

- 6-port 10/100/1000Base-T(X) Ethernet
- 2-port dual rate 100/1000Base-(F)X SFP slots
- Multiusers account for security
- Configuration: http, https, CLI Command, Telnet, SNMP, SSH
- Network redundancy support: G.8032 ERPS v2/STP/RSTP/MSTP
- Supports IP route for routing function
- Supports RADIUS, TACACS+ authentication protocol
- Supports QoS, LACP bandwidth control
- Supports VLAN, SNMP v1/v2c/v3, ACL, IP source guard for Ethernet security
- PoE ping alarm function for PoE ports power recycle
- Redundant power inputs design
- Operating temperature range - STD: -10°C ~70°C, EOT: -40°C ~ 75°C



#### PRODUCT DESCRIPTION

AGATEL XLG7508 Series are 8-port full gigabit managed PoE Ethernet switch, which provides 6\*10/100/1000 Base-T(X) and 2\*100/1000 Base-(F)X SFP slots. XIG7508 Series are full manageable Layer-2 Ethernet switch series, and supporting power inputs redundancy. XLG7508 Series offers standardized network redundancy ITU-T G.8032 ERPS v2 (Ethernet Ring Protection Switch) protocol, providing <50ms recovery time to the network, to give user the chance to choose your Ethernet switch but not tied up with particular brand's product.

XLG7508 Series provides comprehensive network security and management capability by supporting Multiusers account, IGMP, GVRP, VLAN, QoS, SNMP, RADIUS, TACACS+, Aggregation (Static, LACP), SSH, SSL, IP source guard to create a highly-secured network environment., assuring PD priority and enhancing security level of the network,

XLG7508 Series as an industrial Ethernet switch product line, is designed to withstand harsh and extreme environment conditions. With fan less design, XLG7508 still manage to be applied in extremely polarized temperature, from -40oC to 75oC, making it the best choice in various industrial applications.



Hardware Platform	
Standards	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX and 100Base-FX Fast Ethernet IEEE 802.3ab 1000Base-T Gigabit Ethernet IEEE 802.3z 1000Base-X Gigabit Fiber IEEE 802.3af/at Power over Ethernet IEEE 802.3x Flow Control IEEE 802.1d STP (Spanning Tree Protocol) IEEE 802.1w RSTP (Rapid Spanning Tree Protocol) IEEE 802.1s MSTP (Multiple Spanning Tree Protocol) ITU-T G.8032 / Y.1344 ERPS v1/v2(Ethernet Ring Protection Switch) IEEE 802.1Q Virtual Local Area Network (VLAN) IEEE 802.1p QoS/CoS Protocol for Traffic Prioritization IEEE 802.1X Network Authentication IEEE 802.1AB Link Layer Discovery Protocol (LLDP) IEEE 802.3ad Link Aggregation (LACP)
Processing Type	Store and Forward
Flow Control	IEEE 802.3x flow control, back pressure flow control
Network Management	
Management	IPv4/IPv6, SNMP v1/v2c/v3, LLDP, LLDP-MED, HTTP, HTTPS, SSHv2 telnet, DHCP client, DHCPv6 client, DHCP server, Port Mirror, DNS client/proxy, IP based Access Filter, ICMPv6, syslog, Time Zone /Daylight Saving, NTP client, RMON, sFlow, Loop detection, Console Port, Power lost warning, relay trigger
Security	Port-based/Single/Multi 802.1X, ACL(Port/Rate Limiters/ACE), MACbased Authentication, VLAN assignment, QoS Assignment, Private VLAN, Guest VLAN, RADIUS accounting, TACACS+, IP MAC binding, WEB/CLI authentication, Authorization (15 levels), Port Security Limit Control, ACLs for filtering/policing/port copy, IP source guard, ARP Inspection
L2 Switching	Port/MAC/Protocol/IP Subnet-based VLAN, GARP/GVRP, Loop Guard, Link Aggregation static/LACP, BPDU guard, Error disable recovery, IGMP snooping v2/v3, MLD snooping v1/v2, IGMP filtering, IPMC throttling / filtering leave proxy, DHCP snooping, G.8032 v1/v2
L3 Switching	DHCP option82, IP route
QoS	802.1p Queueing, Input priority mapping, Storm control for Unicast/Multicast/Broadcast, Port/Queue/ACL policer, Port egress shaper, Queue egress shaper, DiffServ (DSCP), Tag remarking, Scheduler mode
Power Saving	ActiPHY, PerfectReach, IEEE 802.3az EEE power management
Network Redundancy	STP/RSTP/MSTP, port trunk with LACP, ERPS v1/v2(<50ms)
Configuration	Http, Https, Telnet, SSH, CLI, TFTP, SNMP v3
PoE	Power budget protection, PoE output scheduled, PoE alive check and remote reboot PD device
System / Diagnostics	Dual Image Protection, PING, PING6



<b>SNMP MIBs &amp; RFC Standards</b>	<p> RFC 2674 VLAN MIB  IEEE-802.1Q bridge MIB 2008  RFC 2819 RMON (group 1, 2, 3, and 9)  RFC 1213 MIB II  RFC 1215 TRAPS  RFC 4188 bridge  RFC 4292 IP forwarding table  RFC 4293 management information base for the Internet Protocol (IP)  RFC 5519 multicast group membership discovery  RFC 4668 RADIUS auth. client  RFC 4670 RADIUS accounting  RFC 3635 Ethernet-like  RFC 2863 interface group MIB using SMI v2  RFC 3636 802.3 MAU  RFC 4133 entity MIB v3  RFC 3411 SNMP management frameworks  RFC 3414 user-based security model for SNMPv3  RFC 3415 view-based access control model for SNMP  RFC 2613 SMON – PortCopy  IEEE 802.1 MSTP  IEEE 802.1AB LLDP-MIB (LLDP MIB included in a clause of the STD)  IEEE 802.3ad (LACP MIB included in a clause of the STD)  IEEE 802.1X (PAE MIB included in a clause of the STD)  TIA 1057 LLDP-MED ( MIB is part of the STD) </p>
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Switch Properties	
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<b>Back-Plane (Switching Fabric)</b>	16Gbps
<b>Priority Queues</b>	8
<b>Max. Number of VLANs</b>	4095
<b>VLAN ID Range</b>	VID 1 to 4095
<b>Memory Buffer</b>	4Mbits
<b>Jumbo Frame</b>	9.6Kbytes
<b>MAC Table Size</b>	8K
<b>IGMP Group</b>	1024
<b>Transfer Rate</b>	14,880pps for Ethernet port 148,800pps for Fast Ethernet port 1,488,000pps for Gigabit Ethernet port

Interface	
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<b>RJ45 Ports</b>	6*10/100/1000Base-T(X) with PoE+, auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection
<b>Fiber Port</b>	2*100/1000Base-(F)X SFP slots
<b>Wavelength</b>	Depends on SFP modules
<b>LED Indicators</b>	System: Power 1, Power 2, Master, Ring, Fault Ethernet ports: Speed/Link/Active PoE: On-connected to PD devices SFP: Link/Active
<b>RS232 Serial Console</b>	1*RS232 in RJ45 connector with console cable, baud rate 115,200bps,8,N,1
<b>Relay Contact</b>	24 VDC, 1A resistive
<b>Network Cable</b>	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm (100m) 1000Base-T: 4-pair UTP/STP Cat.5/5E cable; EIA/TIA-568 100-ohm (100m)



Optical Cable	Multi-mode cable - 50/125um or 62.5/125um, Single-mode cable - 9/125um or 10/125um
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**Power Requirements**

Input Voltage	dual 12-48VDC redundant power inputs
Power Connection	1 removable 6-contact terminal block
Overload Current Protection	Present (Slow-Blow Fuse)
Reverse Polarity Protection	Present
System Power Consumption	Max. 15W full loading

**Mechanical Characteristics**

Housing	Metal, IP30 protection
Dimensions (W x H x D)	54 x 142 x 99 mm (2.13 x 5.59 x 3.9 inch)
Weight	Unit weight: 0.87kg, Shipping weight: 1.27kg
Mounting	DIN-Rail Mounting, Wall Mounting

**Environmental Limits**

Operating Temperature	STD: -10°C ~ 70°C EOT: -40°C ~ 75°C
Storage Temperature	-40°C ~ 85°C
Ambient Relative Humidity	5 to 95%, (non-condensing)

**Regulatory Approvals**

EMI	FCC Part 15 Subpart B Class A, CE EN55022/EN61000-6-4 Class A
EMS	CE EN55024/EN61000-6-2 Class A: IEC61000-4-2 (ESD), IEC61000-4-3 (RS), IEC61000-4-4 (EFT), IEC61000-4-5 (Surge), IEC61000-4-6 (CS), IEC61000-4-8 (Magnetic Field)
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	Vibration IEC60068-2-6
Green	RoHS Compliant
Safety	UL61010-1, UL61010-2-201
MTBF (Telcordia SR-332, Issue 3, GB, 25oC)	47,864 hrs.
Warranty	5 Years



**NOTE: Due to continuous improvement, all product specifications are subject to change without further notice****Packet Contents**

1 XLG7508-2S (-T) Ethernet switch

1 RJ45 (Male) to DB-9 RS-232 (Female) serial console cable

2 Wall-mount installation kits

1 Quick installation guide (printed)

**Comparison Table**

Model Name	10/100/1000 Base-T(X)	100/1000 Base-(F)X SFP	Power Inputs	Operating Temperature
XLG7508-2S	6	2	12-48VDC	-10°C ~ 70°C
XLG75082S-T	8	2	12-48VDC	-40°C ~ 75°C

**ORDERING INFORMATION****XLG7510 Series**

XLG7508-2S	8-Port Industrial Gigabit Managed Ethernet Switch- 6*10/100/1000Base-T(X) +2*100/1000Base-(F)X SFP Slot, Standard Operating Temperature: -10° to 70° C
XLG7508-2S-T	8-Port Industrial Gigabit Managed Ethernet Switch- 6*10/100/1000Base-T(X) +2*100/1000Base-(F)X SFP Slot, Extended Operating Temperature: -40° to 75° C



**Optional Accessories – Power Supply Series**

<b>SDR-120-48</b>	Industrial DIN rail power supply; Output 48Vdc at 2.5A; Metal casing; Ultra slim width 40mm
<b>MDR-20-24</b>	Industrial DIN rail power supply; Output 24Vdc at 1A; Plastic casing.

**Optional Accessories – SFP Transceiver Series**

<b>XTR-28-SX-550M</b>	SFP Transceiver, 1250Mbps, 850nm, Multi-mode, 550m, 3.3V, -40~85°C, DDMI
<b>XTR-38-SX-2K</b>	SFP Transceiver, 1250Mbps, 1310nm, Multi-mode, 2km, 3.3V, -40~85°C, DDMI
<b>XTR-38-LX-10K</b>	SFP Transceiver, 1250Mbps, 1310nm, Single-mode, 10km, 3.3V, -40~85°C, DDMI
<b>XTR-38-LX-20K</b>	SFP Transceiver, 1250Mbps, 1310nm, Single-mode, 20km, 3.3V, -40~85°C, DDMI





## 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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