

RELIABLE SECURE CONNECTIVITY

XLG2300 Series

5-26 Ports Industrial Gigabit Ethernet Unmanaged Switches





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FEATURE HIGHLIGHTS

- 5 to 26 ports of 10/100/1000Base-T(X) Gigabit Ethernet — plug-and-play unmanaged operation
- 100/1000 dual-rate SFP fibre slots and Gigabit combo uplinks (SFP / combo models)
- PoE+ models: IEEE 802.3af/at, 30 W per port, with built-in power-booster for low-voltage DC input
- Store-and-forward, non-blocking wire-speed switching (10 – 52 Gbps fabric)
- Redundant dual DC power inputs with relay alarm, reverse-polarity and overload protection
- IP30 rugged metal housing (1U 19-inch rack-mount on the 26-port model)
- DIN-Rail and Wall mounting; fanless design
- Wide operating temperature — STD: -10°C ~ 70°C, EOT: -40°C ~ 75°C
- 5-year warranty



PRODUCT DESCRIPTION

The Agatel XLG2300 Series is a family of industrial unmanaged Gigabit Ethernet switches spanning 5 to 26 ports, available in copper-only, SFP-fibre and Gigabit-combo configurations, in both non-PoE and IEEE 802.3af/at PoE+ variants.

Non-PoE models run on dual redundant 12–48 VDC inputs; PoE+ models add a built-in power-booster delivering 30 W per port from 12–36 VDC, 12–55 VDC or 48–55 VDC supplies (per model). Every model provides non-blocking, wire-speed store-and-forward switching with no configuration required.

Housed in fan-less IP30 rugged metal enclosures (a 1U 19-inch rack-mount chassis on the 26-port PoE+ model) with relay alarm, reverse-polarity and overload protection, the XLG2300 Series operates across -10°C ~ 70°C (Extended -40°C ~ 75°C), suiting IP surveillance, transport, energy and factory-automation networks.



PRODUCT SPECIFICATIONS

Technology	
Standards	IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX / 100Base-FX IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X IEEE 802.3af/at Power over Ethernet (PoE+ models)
Processing Type	Store and Forward
Protocol	CSMA/CD
Flow Control	IEEE 802.3x flow control, back-pressure flow control
Switch Properties	
Switching Fabric	Non-blocking, wire-speed — 10 to 52 Gbps per model (see Selection & Comparison tables)
Memory Buffer	4 Mbit (1 Mbit on XLG2305-4P)
MAC Table Size	8 K
Jumbo Frame	9.6 – 10 Kbytes
Transfer Rate	14,880 / 148,800 / 1,488,000 pps (Ethernet / Fast Ethernet / Gigabit)
Interface	
RJ45 Ports	10/100/1000Base-T(X); auto-negotiation, Full/Half duplex, Auto-MDI/MDI-X (count per model)
PoE (PoE+ models)	IEEE 802.3af/at PoE-PSE, 30 W per port, power-booster design (End-span, Mode A)
Fibre / SFP Ports	100/1000 dual-rate SFP slots and/or Gigabit combo (per model)
LED Indicators	Power 1, Power 2, Fault; per-port Speed/Link/Activity; SFP Link/Active; PoE status (PoE models)
Relay Contact	24 VDC, 1 A resistive
Network Cable	10/100Base-T(X): 2-pair UTP/STP Cat. 3/4/5, EIA/TIA-568 100-ohm (100 m) 1000Base-T: 4-pair UTP/STP Cat. 5/5e, EIA/TIA-568 100-ohm (100 m)
Power Requirements	
Input Voltage	Non-PoE: dual 12–48 VDC redundant PoE+: dual 12–36 / 12–55 / 48–55 VDC redundant (per model)
Power Connection	1 removable 6-contact terminal block
Overload Current Protection	Present (slow-blow fuse)
Reverse Polarity Protection	Present
Power Consumption	5.6 – 21 W (switch); plus PoE power budget on PoE models — see Selection & Comparison
Mechanical Characteristics	
Housing	Metal, IP30 protection (IP40 on the XLG2326-24P-2S rack-mount model)
Dimensions (W × H × D)	30×140×95 / 30×142×99 / 46×142×99 / 67×142×99 mm; 440×44×200 mm (XLG2326 1U rack)
Weight	Per model — see Selection & Comparison
Mounting	DIN-Rail & Wall mounting; 19-inch rack mounting (XLG2326-24P-2S)
Environmental Limits	

Operating Temperature	STD: -10°C ~ 70°C (14°F ~ 158°F) EOT (-T): -40°C ~ 75°C (-40°F ~ 167°F)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)
Regulatory Approvals	
EMI	FCC Part 15 Subpart B Class A; CE EN55032 / EN61000-6-4 Class A (EN55022 on earlier models)
EMS	CE EN55035 / EN61000-6-2 Class A (EN55024 on earlier models); IEC 61000-4-2 (ESD), -4-3 (RS), -4-4 (EFT), -4-5 (Surge), -4-6 (CS), -4-8 (Magnetic Field)
Free Fall / Shock / Vibration	IEC 60068-2-32 / IEC 60068-2-27 / IEC 60068-2-6
Green	RoHS Compliant
Safety	UL 61010-1, UL 61010-2-201 (UL 508 on earlier models); ISA 12.12.01
Compliance	NEMA TS2 (ITS) — EoT version (availability varies by model)
Warranty	5 Years
Packet Contents	
In the Box	Ethernet switch × 1 Wall-mount installation kit × 2 (rack-mount kit on XLG2326-24P-2S) Quick installation guide (printed) × 1

NOTE: Due to continuous improvement, all product specifications are subject to change without notice.



SELECTION & COMPARISON — NON-PoE (XLG23xx)

All non-PoE models run on dual 12–48 VDC. SFP slots are 100/1000 dual-rate. Every model is also available as an Extended-temperature (-T) version (-40°C ~ 75°C).

Model	10/100/1000 Ports	100/1000 SFP	Switching Fabric	Power	Dimensions W×H×D (mm)	Weight Unit/Ship (kg)	MTBF (hrs)
XLG2305	5	—	10 Gbps	6.6 W	30×140×95	0.45 / 0.65	3,049,321
XLG2305-1S	4	1	Non-blocking	5.6 W	30×140×95	0.59 / 0.79	—
XLG2306-1S	5	1	Non-blocking	6.9 W	30×140×95	0.64 / 0.84	—
XLG2307-2S	5	2	14 Gbps	8 W	30×142×99	0.568 / 0.712	936,469
XLG2308	8	—	16 Gbps	9.2 W	30×140×95	0.52 / 0.65	1,283,579
XLG2310-2S	8	2	20 Gbps	12 W	46×142×99	0.706 / 0.888	874,820
XLG2312-2S	10	2	24 Gbps	12 W	46×142×99	0.72 / 0.902	846,802
XLG2312-4S	8	4	24 Gbps	10 W	46×142×99	0.74 / 0.91	791,981
XLG2316	16	—	32 Gbps	14.4 W	67×142×99	1.122 / 1.408	862,508
XLG2316-4S	12	4	32 Gbps	15.4 W	67×142×99	1.164 / 1.44	715,946
XLG2318-2S	16	2	36 Gbps	15.4 W	67×142×99	1.176 / 1.45	731,474
XLG2320-4S	16	4	40 Gbps	16.5 W	67×142×99	1.188 / 1.47	660,534



SELECTION & COMPARISON — PoE+ (XLG23xx-nP)

IEEE 802.3af/at, 30 W per port, power-booster design. XLG2326-24P-2S is a 1U 19-inch rack-mount unit. All PoE+ models are also available as -T (Extended-temperature) versions.

Model	PoE+ Ports	Other Ports	Switching Fabric	Input Voltage	PoE Max. Power Budget
XLG2305-4P	4	1 × 10/100/1000	10 Gbps	12–36 VDC	120 W
XLG2307-4P-2S	4	1 × 10/100/1000 + 2 × SFP	14 Gbps	12–55 VDC	120 W
XLG2308-8P	8	—	16 Gbps	48–55 VDC	240 W
XLG2310-8P-2S	8	2 × SFP	20 Gbps	12–55 VDC	60 W@12V / 200 W@36–55V
XLG2312-8P-2S	8	2 × 10/100/1000 + 2 × SFP	24 Gbps	12–55 VDC	60 W@12V / 200 W@36–55V
XLG2312-8P-4S	8	4 × SFP	24 Gbps	48–55 VDC	240 W
XLG2316-16P	16	—	32 Gbps	48–55 VDC	240 W
XLG2316-12P-4S	12	4 × SFP	32 Gbps	48–55 VDC	240 W
XLG2318-16P-2S	16	2 × SFP	36 Gbps	48–55 VDC	240 W
XLG2320-16P-4S	16	4 × SFP	40 Gbps	48–55 VDC	240 W
XLG2326-24P-2S	24	2 × Gigabit combo	52 Gbps	48–55 VDC	720 W



ORDERING INFORMATION — NON-PoE

Order Code	Description
XLG2305	5-Port Industrial Unmanaged Gigabit Ethernet Switch — 5 × 10/100/1000Base-T(X), 12–48 VDC, -10°C ~ 70°C
XLG2305-T	5-Port Industrial Unmanaged Gigabit Ethernet Switch — 5 × 10/100/1000Base-T(X), 12–48 VDC, -40°C ~ 75°C (Extended)
XLG2305-1S	5-Port Industrial Unmanaged Gigabit Ethernet Switch — 4 × 10/100/1000Base-T(X) + 1 × 100/1000 SFP, 12–48 VDC, -10°C ~ 70°C
XLG2305-1S-T	5-Port Industrial Unmanaged Gigabit Ethernet Switch — 4 × 10/100/1000Base-T(X) + 1 × 100/1000 SFP, 12–48 VDC, -40°C ~ 75°C (Extended)
XLG2306-1S	6-Port Industrial Unmanaged Gigabit Ethernet Switch — 5 × 10/100/1000Base-T(X) + 1 × 100/1000 SFP, 12–48 VDC, -10°C ~ 70°C
XLG2306-1S-T	6-Port Industrial Unmanaged Gigabit Ethernet Switch — 5 × 10/100/1000Base-T(X) + 1 × 100/1000 SFP, 12–48 VDC, -40°C ~ 75°C (Extended)
XLG2307-2S	7-Port Industrial Unmanaged Gigabit Ethernet Switch — 5 × 10/100/1000Base-T(X) + 2 × 100/1000 SFP, 12–48 VDC, -10°C ~ 70°C
XLG2307-2S-T	7-Port Industrial Unmanaged Gigabit Ethernet Switch — 5 × 10/100/1000Base-T(X) + 2 × 100/1000 SFP, 12–48 VDC, -40°C ~ 75°C (Extended)
XLG2308	8-Port Industrial Unmanaged Gigabit Ethernet Switch — 8 × 10/100/1000Base-T(X), 12–48 VDC, -10°C ~ 70°C
XLG2308-T	8-Port Industrial Unmanaged Gigabit Ethernet Switch — 8 × 10/100/1000Base-T(X), 12–48 VDC, -40°C ~ 75°C (Extended)
XLG2310-2S	10-Port Industrial Unmanaged Gigabit Ethernet Switch — 8 × 10/100/1000Base-T(X) + 2 × 100/1000 SFP, 12–48 VDC, -10°C ~ 70°C
XLG2310-2S-T	10-Port Industrial Unmanaged Gigabit Ethernet Switch — 8 × 10/100/1000Base-T(X) + 2 × 100/1000 SFP, 12–48 VDC, -40°C ~ 75°C (Extended)
XLG2312-2S	12-Port Industrial Unmanaged Gigabit Ethernet Switch — 10 × 10/100/1000Base-T(X) + 2 × 100/1000 SFP, 12–48 VDC, -10°C ~ 70°C
XLG2312-2S-T	12-Port Industrial Unmanaged Gigabit Ethernet Switch — 10 × 10/100/1000Base-T(X) + 2 × 100/1000 SFP, 12–48 VDC, -40°C ~ 75°C (Extended)
XLG2312-4S	12-Port Industrial Unmanaged Gigabit Ethernet Switch — 8 × 10/100/1000Base-T(X) + 4 × 100/1000 SFP, 12–48 VDC, -10°C ~ 70°C
XLG2312-4S-T	12-Port Industrial Unmanaged Gigabit Ethernet Switch — 8 × 10/100/1000Base-T(X) + 4 × 100/1000 SFP, 12–48 VDC, -40°C ~ 75°C (Extended)
XLG2316	16-Port Industrial Unmanaged Gigabit Ethernet Switch — 16 × 10/100/1000Base-T(X), 12–48 VDC, -10°C ~ 70°C
XLG2316-T	16-Port Industrial Unmanaged Gigabit Ethernet Switch — 16 × 10/100/1000Base-T(X), 12–48 VDC, -40°C ~ 75°C (Extended)
XLG2316-4S	16-Port Industrial Unmanaged Gigabit Ethernet Switch — 12 × 10/100/1000Base-T(X) + 4 × 100/1000 SFP, 12–48 VDC, -10°C ~ 70°C
XLG2316-4S-T	16-Port Industrial Unmanaged Gigabit Ethernet Switch — 12 × 10/100/1000Base-T(X) + 4 × 100/1000 SFP, 12–48 VDC, -40°C ~ 75°C (Extended)
XLG2318-2S	18-Port Industrial Unmanaged Gigabit Ethernet Switch — 16 × 10/100/1000Base-T(X) + 2 × 100/1000 SFP, 12–48 VDC, -10°C ~ 70°C
XLG2318-2S-T	18-Port Industrial Unmanaged Gigabit Ethernet Switch — 16 × 10/100/1000Base-T(X) + 2 × 100/1000 SFP, 12–48 VDC, -40°C ~ 75°C (Extended)
XLG2320-4S	20-Port Industrial Unmanaged Gigabit Ethernet Switch — 16 × 10/100/1000Base-T(X) + 4 × 100/1000 SFP, 12–48 VDC, -10°C ~ 70°C
XLG2320-4S-T	20-Port Industrial Unmanaged Gigabit Ethernet Switch — 16 × 10/100/1000Base-T(X) + 4 × 100/1000 SFP, 12–48 VDC, -40°C ~ 75°C (Extended)



ORDERING INFORMATION — PoE+

Order Code	Description
XLG2305-4P	5-Port Industrial Unmanaged Gigabit Ethernet PoE+ Switch — 4 × 10/100/1000 PoE+ (30 W/port) + 1 × 10/100/1000, 12–36 VDC, -10°C ~ 70°C
XLG2305-4P-T	5-Port Industrial Unmanaged Gigabit Ethernet PoE+ Switch — 4 × 10/100/1000 PoE+ (30 W/port) + 1 × 10/100/1000, 12–36 VDC, -40°C ~ 75°C (Extended)
XLG2307-4P-2S	7-Port Industrial Unmanaged Gigabit Ethernet PoE+ Switch — 4 × 10/100/1000 PoE+ (30 W/port) + 1 × 10/100/1000 + 2 × 100/1000 SFP, 12–55 VDC, -10°C ~ 70°C
XLG2307-4P-2S-T	7-Port Industrial Unmanaged Gigabit Ethernet PoE+ Switch — 4 × 10/100/1000 PoE+ (30 W/port) + 1 × 10/100/1000 + 2 × 100/1000 SFP, 12–55 VDC, -40°C ~ 75°C (Extended)
XLG2308-8P	8-Port Industrial Unmanaged Gigabit Ethernet PoE+ Switch — 8 × 10/100/1000 PoE+ (30 W/port), 48–55 VDC, -10°C ~ 70°C
XLG2308-8P-T	8-Port Industrial Unmanaged Gigabit Ethernet PoE+ Switch — 8 × 10/100/1000 PoE+ (30 W/port), 48–55 VDC, -40°C ~ 75°C (Extended)
XLG2310-8P-2S	10-Port Industrial Unmanaged Gigabit Ethernet PoE+ Switch — 8 × 10/100/1000 PoE+ (30 W/port) + 2 × 100/1000 SFP, 12–55 VDC, -10°C ~ 70°C
XLG2310-8P-2S-T	10-Port Industrial Unmanaged Gigabit Ethernet PoE+ Switch — 8 × 10/100/1000 PoE+ (30 W/port) + 2 × 100/1000 SFP, 12–55 VDC, -40°C ~ 75°C (Extended)
XLG2312-8P-2S	12-Port Industrial Unmanaged Gigabit Ethernet PoE+ Switch — 8 × 10/100/1000 PoE+ (30 W/port) + 2 × 10/100/1000 + 2 × 100/1000 SFP, 12–55 VDC, -10°C ~ 70°C
XLG2312-8P-2S-T	12-Port Industrial Unmanaged Gigabit Ethernet PoE+ Switch — 8 × 10/100/1000 PoE+ (30 W/port) + 2 × 10/100/1000 + 2 × 100/1000 SFP, 12–55 VDC, -40°C ~ 75°C (Extended)
XLG2312-8P-4S	12-Port Industrial Unmanaged Gigabit Ethernet PoE+ Switch — 8 × 10/100/1000 PoE+ (30 W/port) + 4 × 100/1000 SFP, 48–55 VDC, -10°C ~ 70°C
XLG2312-8P-4S-T	12-Port Industrial Unmanaged Gigabit Ethernet PoE+ Switch — 8 × 10/100/1000 PoE+ (30 W/port) + 4 × 100/1000 SFP, 48–55 VDC, -40°C ~ 75°C (Extended)
XLG2316-16P	16-Port Industrial Unmanaged Gigabit Ethernet PoE+ Switch — 16 × 10/100/1000 PoE+ (30 W/port), 48–55 VDC, -10°C ~ 70°C
XLG2316-16P-T	16-Port Industrial Unmanaged Gigabit Ethernet PoE+ Switch — 16 × 10/100/1000 PoE+ (30 W/port), 48–55 VDC, -40°C ~ 75°C (Extended)
XLG2316-12P-4S	16-Port Industrial Unmanaged Gigabit Ethernet PoE+ Switch — 12 × 10/100/1000 PoE+ (30 W/port) + 4 × 100/1000 SFP, 48–55 VDC, -10°C ~ 70°C
XLG2316-12P-4S-T	16-Port Industrial Unmanaged Gigabit Ethernet PoE+ Switch — 12 × 10/100/1000 PoE+ (30 W/port) + 4 × 100/1000 SFP, 48–55 VDC, -40°C ~ 75°C (Extended)
XLG2318-16P-2S	18-Port Industrial Unmanaged Gigabit Ethernet PoE+ Switch — 16 × 10/100/1000 PoE+ (30 W/port) + 2 × 100/1000 SFP, 48–55 VDC, -10°C ~ 70°C
XLG2318-16P-2S-T	18-Port Industrial Unmanaged Gigabit Ethernet PoE+ Switch — 16 × 10/100/1000 PoE+ (30 W/port) + 2 × 100/1000 SFP, 48–55 VDC, -40°C ~ 75°C (Extended)
XLG2320-16P-4S	20-Port Industrial Unmanaged Gigabit Ethernet PoE+ Switch — 16 × 10/100/1000 PoE+ (30 W/port) + 4 × 100/1000 SFP, 48–55 VDC, -10°C ~ 70°C
XLG2320-16P-4S-T	20-Port Industrial Unmanaged Gigabit Ethernet PoE+ Switch — 16 × 10/100/1000 PoE+ (30 W/port) + 4 × 100/1000 SFP, 48–55 VDC, -40°C ~ 75°C (Extended)
XLG2326-24P-2S	26-Port Industrial Unmanaged Gigabit Ethernet PoE+ Switch — 24 × 10/100/1000 PoE+ (30 W/port) + 2 × Gigabit combo (2×10/100/1000 + 2×100/1000 SFP), 1U 19-inch rack-mount, 48–55 VDC, -10°C ~ 70°C
XLG2326-24P-2S-T	26-Port Industrial Unmanaged Gigabit Ethernet PoE+ Switch — 24 × 10/100/1000 PoE+ (30 W/port) + 2 × Gigabit combo (2×10/100/1000 + 2×100/1000 SFP), 1U 19-inch rack-mount, 48–55 VDC, -40°C ~ 75°C (Extended)

Optional accessories — industrial DIN-Rail power supplies (HDR / MDR / EDR / NDR / SDR series, 30–480 W) and 100 Mbps / 1 Gbps multi-mode, single-mode, BiDi and copper SFP transceiver modules — are available; contact Agatel for the current accessory list.



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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