

GL5030X

12 Port Industrial Managed (PoE) L2 Switch with 10G Uplink

The GL5030X Industrial Ethernet Switches from Actelis Networks® are high density hardened, fanless fiber fed switches able to support four 10G SFP interfaces and up to 8 RJ45 gigabit interfaces per device with optional PoE capabilities.

The GL5030X is part of Actelis' DIN Rail family of access switching products designed for industrial, intelligent traffic network, surveillance, pipeline and utility applications. The GL5030X family are cost optimized, managed 10G switches supporting multiple ten and one gigabit Ethernet connections that allow multiple sensors or cameras at various locations to be connected in a linear chain, MSTP/RSTP/STP mesh or Fast healing ERPS ring configurations.

The GL5030X family offer wire-speed switching across 12 ports, featuring an extremely small factor, fanless design, and DIN rail mounting, the GL5030X family is ideal for deployment in almost any traffic, utility, or industrial networks.

The GL5030X-8J4F-P supports 8 PoE (Power over Ethernet) ports with a maximum of 30W per port (802.3af and 802.3at), the GL5030X-8J4F-P1 supports 4 PoE ports with 30W and 2 PoE ports with 60W, and the GL5030X-08J4F-P2 supports 4 PoE ports with up to 60W.

Environmentally hardened with redundant power inputs, and featuring a robust, field-proven design, the unit is protected against over voltage and over current conditions, ensuring high reliability and trouble-free operation.

Interoperable with any standard Ethernet switch, router or hub GL5030X devices seamlessly integrate into any Ethernet network. Equipped with four 1/10G Small Form-Factor Pluggable (SFP/SFP+) uplinks and 8x 10/100/1000Base-T copper RJ45 ports, the GL5030X allows assignment of a service/device per port.

GL5030X incorporates comprehensive set of mechanisms that include high level authentication, advanced encryption capabilities, as well as sophisticated filtering and access control using layer 2 processes.

The GL5030X provides 802.1q VLAN-aware wire-speed bridging, double tagging (VLAN stacking) for end-user VLAN transparency, L2 (Ethernet priority) classification with eight queues per port, fast healing rings, MSTP/RSTP/STP, Dynamic Link Aggregation, bandwidth monitoring, Multicast/Broadcast limiting, as well as IGMP bandwidth snooping for video distribution applications.

The GL5020 can be managed through Actelis' MetaASSIST EMS multi-platform Element Management System*. Various user interfaces/protocols are supported including a WEB based GUI, Cisco Like CLI as well as SNMP MIBs enabling seamless integration with third-party Network Management Systems (NMS).

Highlights

- High Density Managed 10G switch 12 ports
- Industrial Design Harsh environments, wide temperature range compact IP30
- Optional PoE (Power over Ethernet) ports
- Flexible Network Redundancy RSTP, MSTP, ERPS, LACP
- Advanced Traffic Management QoS- CoS, DSCP, WRR/SPQ Queuing, Storm Protection
- L2 wire speed switching, 9K Jumbo frames
- Multicasting IGMP Snooping v1/v2/v3, up to 512 groups
- Advanced Security: IEEE 802.1x, RADIUS & TACACS+
- SNMP v1/v2c/v3
- Easy Deployment / Configuration USB storage, configuration-free replacement
- Industrial automation protocols Ethernet/IP and Modbus TCP
- Superior Reliability and Availability





GL5030X

Specifications

Interfaces

Ethernet (Network/User) -

10/100/1000Base-T: 8 ports
 Connector: RJ45, Auto-MDI/MDI-X
 PoE (not on GL5030X-0804 model):
 GL5030X-8J4F-P: 8x 30W (802.3af or 802.3at)
 GL5030X-8J4F-P2: 4x 60W (802.3bt)
 GL5030X-8J4F-P1: 4x 30W + 2x 60W

1/10G Base-X: 4 ports
 Connector: SFP/SFP+, MSA compliant

Management (out-of-band)

• Console/Craft: RS-232 Connector: RJ-45

 Storage- Firmware update, configuration backup, restore, boot up and syslog
 Connector: USB 2.0

Alarm Contacts

• Terminal Block, 1 input, 1 output

LAN Protocols

- Ethernet operating mode: Store & forward, L2 wire-speed/non-blocking
- MAC addresses: 16K
- Jumbo frames: 9K Bytes
- Flow control: IEEE 802.3x (Full Duplex) and Back-Pressure(Half Duplex)
- Max VLANs: 4094
- VLAN Types: Port-based VLANs
- VLAN Tagging: IEEE 802.1Q
- Double Tagging: Q-in-Q IEEE 802.1ad
- Multicast: IGMP snooping V1/V2/V3 up to 512 multicast groups, IGMP Querier
- Discovery Mechanisms: LLDP IEEE 802.1ab

Traffic Management and QoS

- Priority IEEE 802.1p QoS
- Queues per port: 8
- Traffic Shaper: port-based shaping
- Scheduler: SPQ, WRR

Redundancy

- Ring: ERPSv2
- Spanning Tree Protocol:
 STP IEEE 802.1D,
 RSTP IEEE 802.1w,
 MSTP IEEE 802.1s
- Link Aggregation with LACP Static or Dynamic

Management Applications

• EMS: MetaASSIST EMS*

Security Protocols

- Port security: IP and MAC-based access control
- Authentication: IEEE 802.1X
- Storm Control: Multicast/Broadcast/Flooding Storm Control

Management Protocols

User Management interfaces

- Command line interface: Cisco-like CLI
- WEB-GUI
- SNMP: V3, V2C, V1
- Telnet

Secure Access

• HTTPS, SSH, SSL, Radius, TACACS+

Configuration

TFTP, USB

Diagnostic Syslog

Per VLAN mirroring

DHCP

 Client, Server, Snooping, Relay Agent with option Option 82

Time Sync

- NTP
- IEEE1588v2 OC (Software Timestamp)
- TC (Hardware Timestamp)

Physical

• Dimensions :

Height: 5.7" / 145 mm,

Depth: 4.6" / 118 mm, **Width:** 2.8" / 72 mm

- Weight: 2 lbs / 0.9 kg
- Mounting: Din Rails, Wall mounting (Optional)

Power

- Dual DC (integrated): 48-57VDC
- PoE: 240W

GL5030X-8J4F-P: 8x 30W (802.3af or 802.3at) GL5030X-8J4F-P2: 4x 60W (802.3bt) GL5030X-8J4F-P1: 4x 30W + 2x 60W

Environmental

- Operating Temp. -40° to +75°C
- Storage Temp. -40° to +85°C
- Relative humidity: Up to 95%, non condensing

Regulatory Compliance/Certifications

Safety

• IEC62368, UL62368

EMC

- CE EN 55032 Class A, FCC Part 15
- IEC61000-4-2, -3, -4, -5, -6, -8
- EN 50121-4

CE

EMC and Safety

Vibration, shock & freefall

• IEC68-2-6, -27, -32

RoHS and WEEE

RoHS (Pb free) and WEEE compliant



Corporate Headquarters
Actelis Networks, Inc.
47800 Westinghouse Drive
Fremont, CA 94539
t. +1 510-545-1045 or toll-free in U.S. 1-866-ACTELIS

Company and General Information: info@actelis.com
Asia Pacific Sales: apacsales@actelis.com
Central and Latin America Sales: calasales@actelis.com
Europe, Middle East and Africa Sales: emeasales@actelis.com
North America Sales: nasales@actelis.com

Actelis Networks® is the leading global supplier of Carrier Ethernet over Copper broadband solutions for telecom service providers, enterprises and municipalities. Deployed by more than 350 customers worldwide, Actelis is accelerating broadband services to businesses and residential subscribers through award-winning products and technologies. All content included in this document is the exclusive property of Actelis Networks, Inc., and protected by U.S. and international copyright laws. Specifications are subject to change without notice. Actelis® and Actelis Networks® are registered trademarks. EFMplus™ and MetaASSIST™ are trademarks of Actelis. Any other trademarks used herein are the property of their respective owners. Copyright ©2023 All Rights Reserved. Learn more at www.Actelis.com.