

GL5080XR-0412

12+4 Port Industrial 10G Managed L3 Ethernet Switch

The GL5080XR-0412 Industrial L3 Ethernet Switch from Actelis Networks® is a high density hardened, fanless fiber fed switch able to support 12 high speed 10GE interfaces and 4 gigabit interfaces per device.

The GL5080XR-0412 is part of Actelis' DIN Rail family of access switching products designed for industrial, intelligent traffic network, surveillance, pipeline and utility applications. The GL5080XR-0412 is a cost optimized, managed 10GE switch supporting multiple 1/10 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 GL5080XR-0412 offers wire-speed switching across 16 ports, featuring an extremely small factor, fanless design, and DIN rail mounting, the GL5080XR-0412 is ideal for deployment in almost any traffic, utility, or industrial networks.

The GL5080XR-0412 also supports L3 functionality including Static Routing, RIP, OSPF and VRRP.

Environmentally hardened with redundant power inputs, and featuring a robust, field-proven design, the unit is NEMA 4 extended temperature compliant and protected against over voltage and over current conditions, ensuring high reliability and trouble-free operation.

Interoperable with any standard Ethernet switch, router or hub the GL5080XR-0412 device seamlessly integrates into

any Ethernet network. The GL5080XR-0412 is equipped with 12 10GE Small Form-Factor Pluggable (SFP+) ports, and 4 RJ45 GE ports. The GL5080XR-0412 allows assignment of a service/device per port.

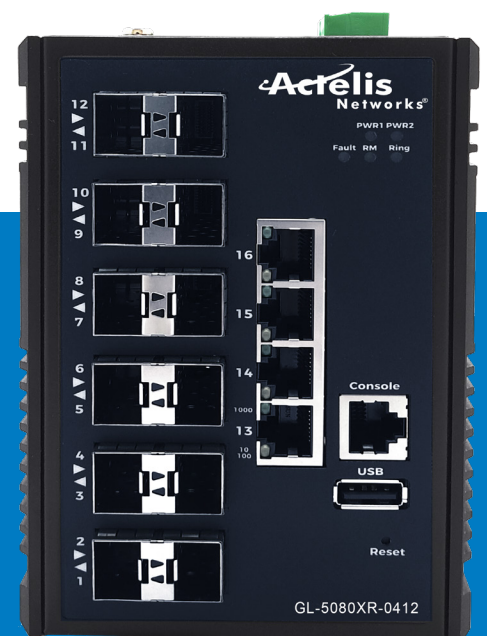
The GL5080XR-0412 incorporates a comprehensive set of mechanisms that include high level authentication, advanced encryption capabilities, as well as sophisticated filtering and access control using layer 2 processes.

The GL5080XR-0412 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 GL5080XR-0412 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** 10GE switch – 16 ports
- **Industrial Design** - Harsh environments, wide temperature range compact IP30
- **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
- **L3 Routing capabilities** - RIP, OSPF, VRRP
- **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**



GL5080XR-0412

Specifications

Interfaces

- Ethernet (Network/User) -
- **10/100/1000Base-T**: 4 ports
Connector: RJ45, Auto-MDI/MDI-X
 - **10GE SFP+**: 12 ports
Connector: 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: 32K
- 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 V1/V2 up to 512 multicast groups, IGMP snooping and querying, Throttling and filtering.
- Discovery Mechanisms: LLDP IEEE 802.1ab

Redundancy

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

L3 Protocols

- Static Routing
- RIP v1/v2
- RIPng
- OSPF v2/v3
- VRRPv2

Traffic Management and QoS

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

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
- Ethernet Copper connection diagnostic tool

DHCP

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

NTP

Physical

- Dimensions :
Height: 5.7" / 145 mm,
Depth: 5.5" / 140 mm, Width: 3.6" / 91 mm
- Weight: 2 lbs / 0.87 kg
- Mounting: Din Rails, Wall mounting (Optional)

Power

- Dual DC (integrated): 12-48VDC

Environmental

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

Regulatory Compliance/Certifications

Safety

- UL 60950, CSA C22.2, EN61010-1, UL 508

EMC

- FCC Part 15, CISPR 22 (EN55032) Class A
- IEC61000-4-2, -3, -4, -5, -6, -8

CE

- EMC and Safety

Vibration, shock & freefall

- IEC68-2-6, -27, -32

RoHS and WEEE

- RoHS (Pb free) and WEEE compliant



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