

## GL6010X-2404P

### 24+4 Port Industrial Managed PoE+ Ethernet Switch with 10G Uplink

**The GL6010X-2404P PoE+ Ethernet switches from Actelis Networks® are hardened, fiber fed switches able to support up to 24 high speed gigabit interfaces each supporting 30W of PoE.**

The GL6010X-2404P product line is part of Actelis' family of switching products designed for industrial, intelligent traffic network, surveillance, pipeline and utility applications. Complementing the ML684Dx, which supports both bonded copper and fiber, and switches in the ML510D family, the GL6010X-2404P is a cost optimized, fiber-fed only unit supporting multiple one gigabit Ethernet connections that allow multiple sensors or cameras at various locations to be connected in MSTP/RSTP/STP mesh or Fast healing ring configurations.

The GL6010X-2404P offers full Ethernet switching capabilities, supporting 4 10GE SFP+ ports for connection to the core network, and 24 GE client ports on each device. The GL6010X-2404P is ideal for deployment in indoor air-conditioned or outdoor locations.

All the 24 Ethernet client ports support PoE (Power over Ethernet) with a maximum of 30W per port (802.3af and 802.3at).

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 GL6010X-2404P devices seamlessly integrate into any Ethernet network. Equipped with 24 10/100/1000Base-T Ethernet interfaces and four 10GE Small Form Factor (SFP) ports, the GL6010X-2404P allows assignment of a service or a customer per port.

Actelis has comprehensive mechanisms that include high level authentication, advanced encryption capabilities, as well as

sophisticated filtering and access control using layer 2 processes.

Actelis GL6010X-2404P offers an all-embracing level of security initiating from the physical layer through switching and up to the management and access layers. This gives you a significantly strong and resilient solution and enables transmissions which have the highest level of immunity with notably lower vulnerability to hacking attempts.

The GL6010X-2404P 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 GL6010X-2404P 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

- 1U 19" Rack mounted
- Drop and Continue, RSTP/STP mesh or ERPS
- PoE (Power over Ethernet) ports
- Compact Design
- Enhanced Security - Low vulnerability to hacking
- Rapid Service Deployment
- Low Delay and Jitter for Voice and Video Transmission

#### Applications

- Telemetry
- IP-based Traffic Controllers
- Smart Grid Sensors
- Dynamic Message Signs
- HD Video Cameras & Streaming
- Vehicle Detection
- Smart Parking
- Emergency Response
- Supports & Complements City Wi-Fi Access

## GL6010X-2404P

### Specifications

#### Interfaces

##### Ethernet (Network/User) -

- **10/100/1000Base-T:** 24 ports  
Connector: RJ45, Auto-MDIX  
PoE: 24x 30W (802.3af or 802.3at)
- **10GE SFP+:** 4ports  
Connector: SFP Based, MSA compliant multimode (mm) and single mode (sm)

##### Management (out-of-band)

- **Console/Craft:** RS-232, Terminal emulator, Baud rate: 115200bps  
Connector: RJ45
- **Storage:** USB

##### Alarm Contacts

- Terminal Block, 1 Output, 1 input

#### 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 V1/V2 up to 255 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

#### 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: 1.7" / 44 mm,  
Depth: 13.0" / 331 mm, Width: 17.3" / 440 mm
- **Weight:** 13 lbs / 6 kg
- **Mounting:** Rack Mounting

#### Power Options

- **Dual DC (integrated):** 48-57 VDC (>50VDC for PoE), 26 Watt
- **AC (integrated):** 90~264VAC
- **AC+DC (integrated)**
- **PoE budget:** 720W, 30W per PoE port

#### 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 (EN55022) 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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