

IMS-1608

Industrial Gigabit Ethernet Managed PoE Switch

8x 1G WAN

16x LAN 10/100/1000Base-T, with 8x PoE

Description:

IMS-1608 is a rugged industrial managed Ethernet switch designed for reliable operation in harsh environments. It provides secure data, voice and video communication for industrial networks and supports advanced Layer 2 management, redundancy, security and PoE functionality.

The switch is suitable for industrial automation, transportation systems, surveillance networks and critical infrastructure applications. It can be mounted on a DIN rail or installed in a 19" rack.



IMS-1608

Features:

- Industry design resistant to harsh environmental conditions and rough handling
- 1G uplinks, 1G downlinks
- WAN – 8x ports, SFP slots
- LAN – 16x 10Base-T/100Base-TX/1000Base-T
- Provides 8-port IEEE 802.3af / 802.3at PoE+ output (30 W per port, total 240 W)
- Cable diagnostics, identifies opens/shorts distance
- Provides 5 ring instances that each can support μ -Ring, μ -Chain or Sub-Ring type for flexible uses.
- Supports up to 5 rings in one device

Network Interfaces

- 24 ports total:
 - 16x 10/100/1000Base-T RJ-45 ports
 - 8x 100/1000Base-X SFP uplink ports
- Auto-negotiation
- Auto MDI/MDI-X support
- Console management via RS-232

Power over Ethernet (PoE)

- 8 x IEEE 802.3af/at PoE+ ports
- Up to 30 W per port
- Total PoE budget: 240 W
- Automatic PoE device monitoring

Network Reliability

- STP, RSTP and MSTP
- ERPS (G.8032), EPS (G.8031)
- Multiple μ -Ring topologies
- Recovery times:
 - μ -Ring: <10 ms
 - ERPS: <50 ms
- Up to 250 devices in a ring

Industrial Design

- Fanless metal housing (IP30)
- Redundant dual DC power (44–57 V DC)
- Reverse polarity and overload protection
- Wide operating temperature:
 - Standard version: -10 °C to +60 °C
 - Extended version: -40 °C to +75 °C

Performance

- Switching capacity: 48 Gbps
- Store-and-forward architecture
- Jumbo frames up to 9.6 KB
- MAC address table: 8K entries
- Memory: 16 MB Flash, 128 MB RAM

Security

- IEEE 802.1X authentication
- RADIUS and TACACS+
- Access Control Lists (ACL)
- HTTPS, SSL and SSH v2
- Management access filtering
- Local and remote user authentication

Quality of Service (QoS):

- 8 priority queues per port
- DSCP, CoS and IP precedence classification
- Bandwidth limiting and traffic shaping
- Storm control

Management and Monitoring

- Web GUI
- Cisco-style CLI
- Telnet / SSH
- SNMP v1/v2c/v3

IPv6 Support

- SNMP, HTTP and SSH over IPv6
- IPv6 QoS
- IPv6 ACL
- IPv6 TFTP
- IPv6 NTP/SNTP

Environmental and Compliance

Mechanical

- Dimensions: 116 × 92 × 160 mm
- Weight: 1.375 kg
- DIN rail or wall mounting
- Reliability: MTBF=439,881 hours

Order code:

IMS-1608SM-8PH -10 °C to +60 °C
IMS-1608SM-8PHE -40 °C to +75 °C

Accessories:

- 2x DC power connector
- DIN rail mount kit
- Console cable RJ45M-DB9F

VLAN and Traffic Management

- IEEE 802.1Q VLAN
- Q-in-Q VLAN
- MAC-, IP subnet- and protocol-based VLANs
- VLAN translation
- Voice VLAN support
- Link aggregation (static and LACP)

Monitoring and diagnostics:

- Syslog
- Port mirroring
- LLDP / LLDP-MED
- Cable diagnostics
- Alarm relay
- Email event notifications
- IEEE 1588 PTP v2
- NTP/SNTP time synchronization

Certifications

- CE, FCC Class A
- EN 62368-1, EN 50121-4 (Railway)
- EN 61000-6-2 / EN 61000-6-4

Protection

- 4 kV surge protection
- ESD, burst and surge immunity
- Shock, vibration and freefall resistance