Anywhere

AX52
Outdoor Industrial Network Switch
Managed 2-Port 2.5 Gigabit Industrial Ethernet Switch

Product Overview

The AX52 is a ruggedized outdoor industrial-grade managed Ethernet switch designed for reliable operation in harsh outdoor and industrial environments. Featuring dual 2.5 Gigabit Ethernet ports with PoE support, the AX52 delivers stable wired network connectivity, advanced Layer 2+ switching functions, and high availability features in a compact, IP67-rated enclosure suitable for pole-mount and wall-mount deployments.

Key Features

- Dual 2.5 Gigabit Ethernet ports with IEEE 802.3at PoE+ support
- Industrial operating temperature range: –35°C to +60°C
- IP67 weatherproof enclosure for outdoor installations
- Redundant power input with automatic failover
- Advanced Layer 2 switching with VLAN (IEEE 802.1Q) support
- Flow-based traffic forwarding for stable data delivery
- Support for Ethernet ring, daisy-chain, and redundant uplink topologies
- Compact, ruggedized design with flexible mounting options
- Web-based management interface and SNMP support

General Information

Product Name	AX52 Industrial Network Switch
Product Type	Managed Layer 2+ Industrial Ethernet Switch
Description	Ruggedized outdoor Ethernet switch designed for industrial and harsh environmental deployments
Deployment Type	Wired Ethernet only
Enclosure Rating	IP67 weatherproof

Network Interfaces

Ethernet Ports	2 × 2.5 Gigabit Ethernet
PoE Support	IEEE 802.3at PoE+
PoE Ports	1 × PoE input port
Connector Type	Ethernet (RJ45)

Switching & Topology

Switching Mode	Layer 2 transparent switching
VLAN Support	IEEE 802.1Q
Supported Topologies	Linear (Daisy-chain), Ring, Redundant uplink
MAC Address Learning	Dynamic MAC learning

Redundancy & Availability

Traffic Forwarding	Flow-based forwarding
Link Redundancy	Bonded links (Link Aggregation)
Uplink Resilience	Multiple uplink destinations
Loop Protection	Layer 2 loop detection and prevention

Traffic Management

Traffic Segmentation	VLAN-based
BUM Control	Broadcast, Unknown Unicast & Multicast traffic control
Load Distribution	Per-flow load distribution on aggregated links

Security Features

Client MAC Access Control	Whitelist / Blacklist
Neighbor MAC Access Control	Whitelist / Blacklist
Network Segmentation	VLAN-based segmentation
Encryption	Not applicable (enforced at endpoint or application layer)

Management & Monitoring

Management Interface	Web-based (HTTP / HTTPS)
SNMP Support	SNMP v1 / v2c
MIB Support	Yes
Firmware Management	Remote firmware upgrade
Time Synchronization	Network time synchronization supported

Power & Electrical

Power Input Options	IEEE 802.3at PoE, DC 48–56 V
Current Rating	1 A
Redundant Power	Supported with automatic failover
Maximum Power Consumption	20 W

Indicators

LED Indicators	Power, Ethernet Port 0, Ethernet Port 1

Physical Characteristics

Dimensions (W × H × D)	242.6 × 224.2 × 77.2 mm (without mounting)
Net Weight (without mounting)	1.90 kg
Net Weight (with mounting)	2.68 kg
Gross Weight	3.15 kg
Mounting Options	Pole mount (Ø25–Ø75 mm), Wall mount
Installation Orientation	Horizontal, Vertical, ±45° slanted

Environmental Specifications

Operating Temperature	–35°C to +60°C
Operating Humidity	5% to 95% non-condensing
Atmospheric Pressure	86 to 106 kPa
Wind Resistance	Up to 256 km/h
Ingress Protection	IP67
Surge Protection	2 kV common-mode
ESD Protection	IEC 61000-4-2: 8 kV air, 4 kV contact

Compliance & Certification

Regulatory Compliance	FCC, CE, RCM, OFCA

Warranty & Ordering

Standard Warranty	1-year limited hardware warranty
Extended Warranty	Optional 1 / 3 / 5 years
Part Number	GE.SW-AX52-01
Product Description	AX52 Outdoor Industrial Network Switch