

## Full Gigabit Managed L3- lite Industrial Switch

### AIES200 Series



- **Wide temperature operation**
- **Advanced hardware architecture with high port density**
- **Versatile service capabilities with IPv6 support**
- **Comprehensive security mechanisms**
- **IP40-rated protection with 6 kV lightning resistance**

ASCENT AIES200-L25 series is built on a new generation of high-performance industrial hardware and the robust BDROS platform, incorporating latest technology to deliver carrier-grade reliability. Designed for demanding industrial environments, the AIES200-L25 series supports ACL, QinQ, QoS, and static routing while offering wide-voltage dual power input through its standard DIN-rail metal enclosure.

Engineered for mission-critical networks, AIES200-L25 adopts a highly reliable industrial Ethernet ring technology, enabling hardware-accelerated protection switching. The self-healing time per node is less than 5 milliseconds, and a full-ring recovery typically completes within 50 milliseconds—ensuring real-time service continuity.

With enhanced EMC protection, anti-vibration and anti-shock design, and IP40 environmental hardening, the AIES200-L25 series is well suited for harsh industrial deployments. These capabilities make it a powerful platform for energy systems, transportation networks, industrial automation, environmental monitoring, and security or military applications, where long-term stability and rapid fault recovery are essential.

## Key Features

- Lightning protection level: 6KV.IP40 protection, industrial fanless thermal conduction.DIN-rail aluminum alloy shell, which is compact and convenient
- Supports node self-healing time less than 5 milliseconds, and ring network self-healing time less than 50 milliseconds (typical value)
- Supports forming a selfhealing ring network between any two ports, and supports multiple independent self-healing rings
- Provides a data packet loss protection mechanism for quickly recovering from failures
- Provides hierarchical bandwidth services through rate limiting and traffic shaping in the layer-2 QoS function
- Supports simple network management protocol (SNMP) and cloud-based operating platform (Pallas)
- The mean time between failures exceeds 800,000 hours

## Model Lists



AIES200-L25-4T2S  
· 4-Port Gigabit RJ45  
· 2-Port Gigabit SFP

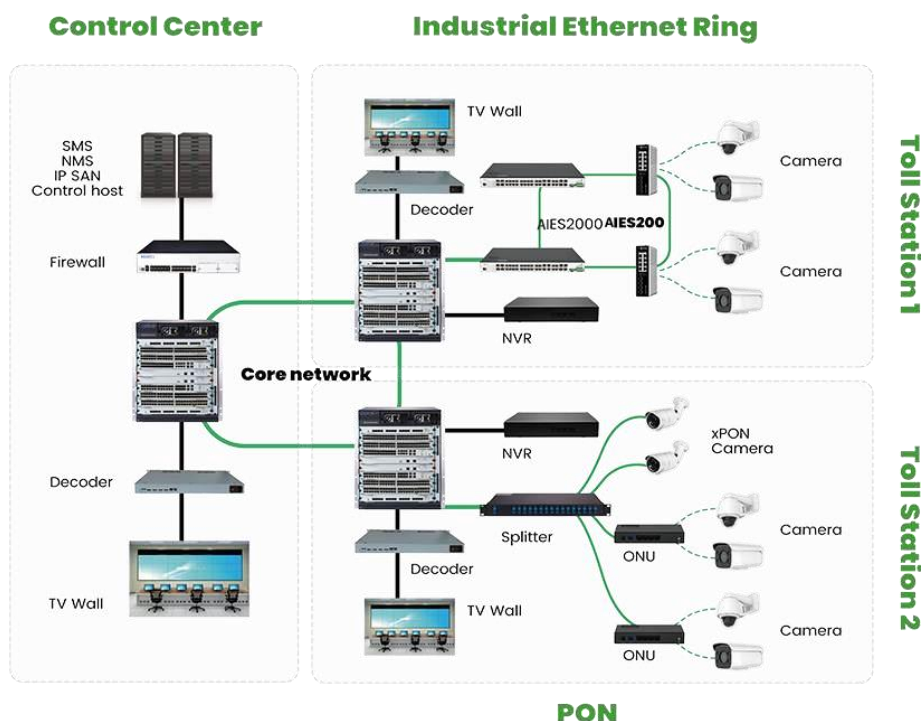


AIES200-L25-8T2S  
· 8-Port Gigabit RJ45  
· 2-Port Gigabit SFP



AIES200-L25-8T4S  
· 8-Port Gigabit RJ45  
· 4-Port Gigabit SFP

## Application Diagram



## Specifications

### Product Characteristics

Item		Unit	Description		
			AIES200-L25-4T2S	AIES200-L25-8T2S	AIES200-L25-8T4S
Gigabit Interface	RJ45		4	8	8
	SFP		2	2	4
Console(RJ45)			1	1	1
Backplane		Gbps	20	20	56
Forwarding Rate		Mpps	9	15	18
Chassis	Dimensions (WxDxH)	mm	138x108x51	138x108x51	164x107x51
	Weight(Empty)	kg	0.6	0.6	0.6
Package	Dimensions (WxDxH)	mm	245x190x60	245x190x60	245x190x60
	Weight	kg	0.8	0.8	0.8
Power Consumption	No-Load	W	<12	<12	<12
Power Supply	Full-Load	W	18	18	20
			Dual DC 12 to 55V (Pheonix) DC 12V (Jack)	Dual DC 12 to 55V (Pheonix) DC 12V (Jack)	Dual DC 12 to 55V (Pheonix) DC 12V (Jack)
Total Output BTU (1000BTU/H=293W)			61.43	61.43	68.26
MTBF(H)			>800,000	>800,000	>800,000
Forwarding Mode			Store-Forward	Store-Forward	Store-Forward
Flash		MB	16	16	16
DRAM		MB	128	128	128
MAC		K	8	8	8
Buffer Size		MB	4.1	4.1	4.1
Jumbo Frame		K	9	9	9
Total SVI			10	10	10

## Features

Item	Description
VLAN	4K VLAN entries GVRP QinQ Private VLAN Voice VLAN
Ring Protection	802.1D (STP), 802.1W (RSTP) and 802.1S (MSTP) BPDU protection, root protection and ring protection EAPS
Multicast	G.8032 ERPS MVR IGMP Snooping IGMP Fast Leave Multicast group policy and multicast number limit
IP Routing	Static route RIP, OSPF 128 routing table
QoS	CAR traffic control 802.1P/DSCP priority remark Multiple queuing algorithms such as SP, WRR or SP+WRR IP ACL/ANY/VLAN/COS DSCP/IP Preference based QoS Traffic supervision and traffic shaping Drop, Redirect
Security	Identification and filtering of L2/L3/ L4-based ACL Suppression of broadcast, multicast and unknown unicast packet Port isolation Port security, IP+MAC+port binding DHCP snooping, DHCP option82 IEEE 802.1x authentication Radius and TACACS+ Command line hierarchical protection
DHCP	DHCP Server/Client/Relay DHCP Snooping
Reliability	Static/LACP LAG Ethernet OAM ISSU Backup-link VRRP
Management and Maintenance	Console, Telnet, SSH 2.0 Zero Touch Provisioning (ZTP) HTTP/HTTPS SNMP v1/v2/v3 Upload and download files through TFTP/FTP Remote Network Monitoring (RMON) Syslog SPAN, RSPAN
IPv6	ICMPv6, DHCPv6, ACLv6, IPv6 Telnet IPv6 Neighbor Discovery Path MTU Discovery MLD Snooping

Item	Description
ACL	VLAN ACL L2 to 4 ACL IPv4, IPv6 ACL

## Ordering Information

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Product name	Product description
AIES200-L25-4T2S	4-Port Gigabit RJ45 + 2-Port Gigabit SFP L3-lite Managed Industrial Switch (dual 12 to 55V DC pheonix power input, single 12V DC jack power input; operating temperature: -40 to 85°C; lightning protection level of 6KV; IP40; DIN-rail installation)
AIES200-L25-8T2S	8-Port Gigabit RJ45 + 2-Port Gigabit SFP L3-lite Managed Industrial Switch (dual 12 to 55V DC pheonix power input, single 12V DC jack power input; operating temperature: -40 to 85°C; lightning protection level of 6KV; IP40; DIN-rail installation)
AIES200-L25-8T4S	8-Port Gigabit RJ45 + 4-Port Gigabit SFP L3-lite Managed Industrial Switch (dual 12 to 55V DC pheonix power input, single 12V DC jack power input; operating temperature: -40 to 85° C; lightning protection level of 6KV; IP40; DIN-rail installation)

## Contact Information



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