

Altai MIS200P

Altai MIS200P is an industrial-grade managed switch featuring eight 1GbE PoE ports, two 1GbE ports and four 100/1000BASE-X SFP slots. The switch, with a rugged IP40 metal case and an ultra-wide temperature range from -40°C to 80°C, is designed to operate in harsh industrial environments such as factory, warehouse, and container port.

Power over Ethernet

The switch supports 802.3at Power over Ethernet, a system to transmit electrical power up to 30 watts, along with data, to remote devices over standard twisted-pair Ethernet cable. Each MIS200P has eight 1GbE P.S.E. ports, with a total power budget of 240W.

Redundant Ring and Fast Recovery

The MIS200P supports the advanced ITU-T G.8032 ERPS (Ethernet Ring Protection Switching) redundant ring technology and Spanning Tree Protocols (STP/RSTP/MSTP) for enhancing the system reliability and uptime of any industrial networks. In a ring topology, the recovery time of the data link can be as low as 20 ms.

Secure Management

To enable IT to easily and definitively secure any industrial network, the MIS200P offers a wide-range



of cybersecurity features that ensure secured switch management, such as SSHv1/v2, SSLv3, RADIUS user account management, and SNMPv3. Furthermore, the switch can be monitored by the AltaiCare On-Premise virtual appliance.

Applications

The MIS200P is specifically designed to work with Altai APs. A typical use case is as an access switch for an outdoor site, where multiple APs and other devices are co-located.

With its anti-shock and anti-vibration capabilities, the switch can readily be used in an RTG or AGV for connecting a Wi-Fi CPE such as A2e and VX200 to the PLC.

Key Features and Benefits

- Eight 10/100/1000BASE-T PoE ports
- Two 10/100/1000BASE-T ports
- Four 100/1000BASE-X SFP slots
- IP40 aluminum case
- 48 – 57 VDC redundant power with polarity reverse protection
- 4 kV power and data port surge protection
- 8 kV Ethernet ESD protection
- Support ERPS redundant ring technology with recovery time as low as 20 ms
- DIN-rail mount
- Support STP/RSTP/MSTP
- Support up to 255 VLAN groups and 4094 VLAN IDs
- Support IGMP snooping v1/v2
- Support RADIUS user access authentication
- Support SSH, SSL, and SNMP v1/v2/v3 management
- Support status monitoring by AltaiGate and AltaiCare On-Premise virtual appliance *

Hardware Specifications

- Copper Ports 8 x 10/100/1000 PoE Ports
- 2 x 10/100/1000 RJ45 Ports
- SFP/Mini-GBIC Slots 4 x 100/1000 SFP Slots
- Console 1 x RS232 Serial Port
- Switch Architecture Store-and-Forward
- Switch Capacity 256 Gbps
- Throughput 20.83 Mpps @ 64-Byte Packet
- Address Table 8K Entries, Automatic Source Address Learning and Aging

- Shared Data Buffer 6 Mbits
- Jumbo Frame 9.6 KBytes
- Reset Button Support
- ESD Protection Contact Discharge: ±8 kV
Air Discharge: ±15 kV
- EFT Protection Power Line: ±4 kV
Data Line: ±2 kV

- Enclosure IP40 Aluminum Case
- Installation DIN-Rail Mount
- DC Connector Removable 6-Pin Terminal Block
- LED Power: Green
System: Green
Per RJ45 Port: LNK/ACT (Green)
Per SFP Port: LNK/ACT (Green)

- Dimensions 165*148*54mm
- Weight 1.1KG
- Input Power DC 48-57V
- Power Consumption Max 12 W(Without PoE)

Power Over Ethernet

- PoE Standard IEEE 802.3af/at, max. 30W
- Power Supply Pin 1/2 (+), 3/6 (-)
- PoE Power Budget Max 240W (48 VDC)

Software Features

- Port Mirroring Support
- VLAN 802.1q Tagged-Based VLAN
GVRP
Up to 255 VLAN Groups
Up to 4094 VLAN IDs
- Link Aggregation IEEE 802.3ad LACP/Static Trunk
- QoS 8-Level Priority for Switching
Port Number
802.1p
DSCP/TOS
- IGMP Snooping IGMP (v1/v2) Snooping
- Bandwidth Control Per Port Bandwidth Control
- Storm Control Unicast/Multicast/Broadcast
- Redundancy ERPS ring, Self-Healing < 20 ms
STP/RSTP/MSTP
- DHCP DHCP Client
DHCP Snooping
- Network Security Port Isolation
MAC/IP Address Binding
Dynamic ARP Inspection
RADIUS User Access

- Mgmt. Interface CLI
Web (HTTP/HTTPS)
SNMP v1/v2c/V3
SSH
Telnet
- Mgmt. Platform AltaiGate/AltaiCare On-Premise*

Environment

- Operating Temp. -40 to +80°C
- Storage Temp. -40 to +85°C
- Humidity 5 to 90% (Non-Condensing)
- MTBF > 539,608 Hours

Certification

- EMC FCC Part 15 Subpart B
EN 55024
EN 55032
- Free Fall IEC 60068-2-32
- Shock IEC 60068-2-27
- Vibration IEC 60068-2-6
- Safety IEC 62368-1



Product Ordering Information

MIS200P (Part No.: SD.IS200-3323-000)

- Industrial 14 Gigabit Ports Managed PoE Switch

Optional Module

- 1.25Gb/s 20 km SFP Transceiver, Single-mode

Contact Us

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MIS200P-PB-210324

**Will be available in the future
Note: Specifications are subject to change without notice*