

Altai MIS600P

Altai MIS600P is an industrial-grade managed switch featuring eight 1GbE PoE ports, two of which support 60W power supply and four of which support 30W power supply, and four 100/1000BASE-X SFP slots. With a rugged IP30 metal case and an ultra-wide temperature range from -40°C to 75°C, the MIS600P is designed to operate in harsh industrial environments such as factory, warehouse, and container port.

Power over Ethernet

The MIS600P supports 802.3bt Power over Ethernet, a system to transmit electrical power up to 60 watts, along with data, to remote devices over standard twisted-pair Ethernet cable, with a total power budget of 240W. When operated in forced mode, the 802.3bt ports are fully compatible with the A8n (ac) series base stations.

Redundant Ring and Fast Recovery

The MIS600P 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 secure any industrial network, the MIS600P provides 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 MIS600P is specifically designed to work with Altai APs, in particular for the A8n (ac) series. A typical use case is as an access switch for an outdoor site, where multiple APs and other devices are co-located.

Key Features

- 60W PoE fully compatible with A8n (ac) series
- Eight 10/100/1000BASE-T PoE ports
- Four 100/1000BASE-X SFP slots
- One Console Port
- One USB Port
- IP30 aluminum case
- 50 – 57 VDC redundant dual inputs
- 2 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 and Wall mount provided
- Support STP/RSTP/MSTP
- Support 512 VLAN groups and 4094 VLAN IDs
- Support IGMP snooping v1/v2/v3
- Support RADIUS user access authentication
- Support SSH, SSL, and SNMP v1/v2c/v3
- Support status monitoring by AltaiGate and AltaiCare On-Premise virtual appliance *

Hardware Specifications

- Copper Ports 8 x 10/100/1000 RJ45 Ports, with 4 x IEEE 802.3at Ports and 2 x 60W IEEE 802.3bt Ports
- SFP/Mini-GBIC Slots 4 x 100/1000 SFP Slots
- Console 1 x RS232 RJ45 Port
- USB 1x USB 2.0 Port
- Switch Architecture Store-and-Forward
- Switch Capacity 24 Gbps
- Throughput 35.7Mpps @ 64-Byte Packet
- Address Table 16K Entries, Automatic Source Address Learning and Aging
- Shared Data Buffer 12 Mbits
- Jumbo Frame 9.2 KBytes
- Reset Button Support
- ESD Protection Contact Discharge: 4 kV
Air Discharge: 8 kV
Power Line: 2 kV
Data Line: 1 kV
- EFT Protection Power Line: 2 kV
Data Line: 1 kV
- Enclosure IP30 Aluminum Case
- Installation DIN-Rail Mount, Wall Mount
- DC Connector Removable 4-Pin Terminal Block
- LED Power: Green
System: Green
Per RJ45 Port: LNK/ACT (Green)
Per SFP Port: LNK/ACT (Green)
- Dimensions 72*145*118 mm
- Weight 0.90 kg
- Input Power DC 50-57V, Redundant Inputs
- Power Consumption Max 18.2 W (Without PoE)

Power Over Ethernet

- PoE Standard IEEE 802.3af/at, IEEE802.3bt
- 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
CoS/DSCP/WRR/SPQ Queuing,
storm protection
- IGMP Snooping IGMP (v1/v2/v3) 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
TACACS+/SSL/SSH

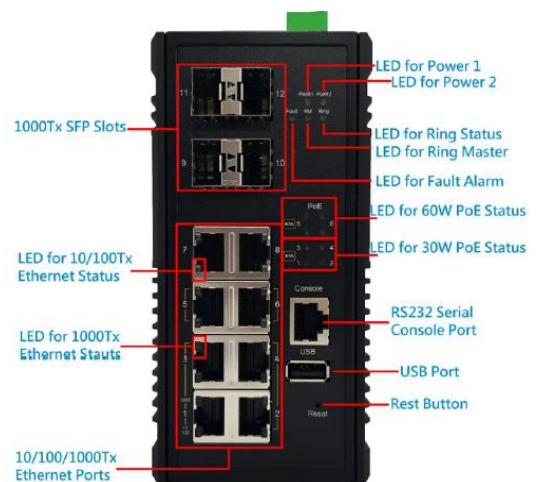
- Mgmt. Interface CLI
Web (HTTP/HTTPS)
SNMP v1/v2c/V3
SSH, Telnet
IPv4, IPv6
- Mgmt. Platform AltaiGate/AltaiCare On-Premise*

Environment

- Operating Temp. -40 to +75°C
- Storage Temp. -40 to +85°C
- Humidity 5 to 95% (Non-Condensing)
- MTBF > 100,000 Hours

Certification

- EMC FCC Part 15 Subpart B
EN 55024
EN 55032
- Surge IEC 6100-4-5
- ESD IEC 6100-4-2
- Free Fall IEC 60068-2-32
- Shock IEC 60068-2-27
- Vibration IEC 60068-2-6



Product Ordering Information

MIS600P (Part No.: SD.IS600-3323-000)

- Industrial 12 Gigabit Ports Managed PoE Switch

Optional Module

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

Contact Us

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MIS600P-PB-221025

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