Altai MIS120P

Altai MIS120P is an industrial-grade managed switch featuring four 1GbE PoE ports, and two 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 MIS120P has four 1GbE P.S.E. ports, with a total power budget of 120W.

Redundant Ring and Fast Recovery

The MIS120P 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 secure any industrial network, the MIS120P 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 AltaiGate or AltaiCare On-Premises virtual appliance.

Applications

The MIS120P 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 a PLC.

Key Features and Benefits

- **Four 10/100/1000BASE-T PoE ports**
- **Two 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 or AltaiCare On-Premises virtual appliance** *

Hardware Specifications

- Copper Ports — 4 x 10/100/1000 PoE Ports
- SFP/Mini-GBIC Slots — 2 x 100/1000 SFP Slots
- Console — 1 x RS232 Serial Port
- Switch Architecture — Store-and-Forward
- Switch Capacity — 128 Gbps
- Throughput — 8.93 Mpps @ 64-Byte Packet
- Address Table — 8K Entries, Automatic Source Address Learning and Aging
- Shared Data Buffer — 4 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 — 145 x 134.5 x 47.5mm
- Weight — 0.6kg
- Input Power — DC 48 – 57VDC
- Power Consumption — Max 8W

Power Over Ethernet

- PoE Standard — IEEE 802.3af/at, max. 30W
- Power Supply Pin — 1/2 (+), 3/6 (-)
- PoE Power Budget — Max 120W (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-Premises*

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

MIS120P (Part No.: SD.IS120-1223-000)
- Industrial 6 Gigabit Ports Managed PoE Switch

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

Contact Us
- Email: sales@altaitechnologies.com

MIS120P-PB-201201

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