EKI-9778

1U Rackmount Industrial-Class Switch with Combo Port Flexibility 24GbE + 4 10GbE Managed Switch

NEW

FCC CE

Features

- Switching architecture with 24 x GbE ports and 4 x 10GbE ports
- 16 x gigabit combo ports (1000BASE-T/TX or GbE SFP)
- 4 x 10 Gigabit SFP+ ports
- 2 x redundant power 110 ~ 220 V_{AC} input
- Fanless design
- IEEE1588 PTPv2 with 1-step precision clock
- 128 Gbps switch fabric capacity supported
- Embedded hardware monitor
- Operating temperature -10 ~ 60°C

Introduction

The EKI-9778 Industrial-Class switch represents the entry level of Advantech's rackmount industrial class switch portfolio; EKI-9778 Industrial-Class switch is designed for flexible installation, and can be deployed in demanding industrial environments. The EKI-9778 gigabit combo switch design makes network planning easy, and allows greater flexibility for users install up to 16 Gigabit Ethernet combo ports plus 8 Gigabit 1000Base-X and 4 10 Gigabit SFP+ ports, making EKI-9778 suitable for edge to core industrial networks. It integrates Layer 2 switching software, which is optimized for scale and performance, delivering wire speed across all ports up to 128Gbps for layer 2 traffic forwarding. In addition, the fanless convection design provides a high degree of reliability, operating under -10 ~ 60°C operating temperatures, and two built-in 110 ~ 220 V_{AC} input redundant power modules ensure vital network capabilities with minimum downtime.

Specifications

Interface

- **I/O Port** — 4 x 10GbE SFP+ slot
  8 x 1000Base-X SFP
  16 x Gigabit Combo Port
  (10/100/1000Base-T(X) or 1000Base-X SFP)
- **Console port** — RJ-45
- **F/W upgraded** — USB
- **Power Connector** — AC Socket

Physical

- **Enclosure** — Metal Shell
- **Installation** — Rack-Mount
- **Dimensions (W x H x D)** — 446 x 44 x 352 (mm)

LED Display

- **System LED** — PWR1, PWR2, SYS, CFG, Alarm
- **Port LED** — Link / Activity / Speed

Environment

- **Operating Temperature** — -10 ~ 60°C
- **Storage Temperature** — -40 ~ 85°C
- **Ambient Relative Humidity** — 5 ~ 95% (non-condensing)
- **Humidity** — 5 ~ 95% (non-condensing)

Power

- **Power Consumption** — ~72 Watts Max
- **Power Input** — 110 ~ 220 V_{AC} Redundant Inputs

Certification

- **EMI** — FCC Part 15 Subpart B Class A
  CE EN55022, EN55024
- **Safety** — EN 60950-1*
- **Shock** — IEC 60068-2-27
- **Freefall** — IEC 60068-2-32
- **Vibration** — IEC 60068-2-6

L2 Features

- **L2 MAC Address** — 16K
- **Jumbo Frame** — 12KB
- **VLAN Group** — 4K (VLAN ID 1~4094)
- **VLAN Arrange** — Mac based VLAN, Protocol based VLAN, IP subnet based VLAN, Port based VLAN, Q-in-Q (VLAN Stacking), GVRP
- **Port Mirroring** — Per port, Multi-source port
- **IP Multicast** — IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave
- **Storm Control** — Broadcast, Multicast, Unknown unicast
- **Spanning Tree** — IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE 802.1w-RSTP, X-Ring+

QoS

- **Scheduling for priority queue** — WRR (Weighted Round Robin), SP (Strict Priority), Hybrid Priority
- **Class of Service** — IEEE 802.1p Based CoS, IP TOS, DSCP based CoS
- **Rate Limiting** — Ingress Rate limit, Egress Rate limit
- **Link Aggregation** — IEEE 802.3ad Dynamic Port Trunking, Static Port Trunking

Security

- **Port Security** — Static, Dynamic
- **Authentication** — 802.1x (Port-Based, MAC-Based, MD5/TLS/TTLS/PEAP Encryption), RADUIS, TCACAS+
- **ACL** — 1K rules
- **Advanced Security** — IP Source guard, ARP inspection, DHCP Snooping

Management

- **DHCP** — Client, Server, Relay, Option66/67/82
- **Access** — SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB, Private MIB
- **Security access** — SSH2.0, SSL
- **Software upgrade** — TFTP, HTTP, Dual Image
- **NTP** — NTP client/server

* EN 60950-1 is ongoing

Ordering Information

- **EKI-9778-C0SA820E** — Layer 2 Fastpath, 8xGbE SFP slot + 16xGbE Combo Port + 4x(10GbE SFP+ slot) w/110 ~ 220 V_{AC} Redundant Power Input Mass Production

Contact our sales for more pricing & ordering information.