

# 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<sub>AC</sub> 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<sub>AC</sub> 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<sub>AC</sub> 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/TTL/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<sub>AC</sub> Redundant Power Input Mass Production

Contact our sales for more pricing & ordering information.