

Product Description

The KBC ESMGS8-C2-D Series is a high performance, industrial, managed gigabit switch with 8 PoE+ ports and 2 copper/SFP combo ports. The 8 PoE+ ports support IEEE802.3af/at standard. PoE+ output power of single port is up to 30W. It is embedded with KBC IXM function, this can benefit users for fast deployment and can dramatically save engineers time and costs. The ESMGS8-C2-D series also support NMS to help IT managers with networking maintenance and failure prevention. The ESMGS8-C2-D series is equipped with X-Ring Pro which can achieve ultra high speed recovery time of less than 20 ms to ensure network stability.



Product Features

- 8 x IEEE 802.3 af/at PoE Gigabit ports + 2 x Gigabit Copper/SFP combo ports
- SFP socket for Easy and Flexible Fiber Expansion
- Redundancy: X-Ring Pro (ultra-high-speed recovery time < 20 ms), RSTP/STP (802.1w/1D)
- IXM function enables fast deployment
- Security: 802.1x (Port-Based, MD5/TLS/TTLS/PEAP Encryption), RADIUS
- Management: **SNMP** v1/v2c/v3, WEB, Telnet, Standard MIB, Private MIB
- -40 ~ 75°C wide-range operating temperature
- Dual 24~48 VDC power input and 1 relay output

Specifications

Interface

I/O Port ⁽¹⁾	8 x 10/100/1000Base-T/TX RJ-45 2 x RJ-45/SFP(mini-GBIC) Combo port
Console port	RS-232 (RJ45)
Power Connector	6-pin screw Terminal Block (including relay)

PoE

Standard	IEEE802.3af/at
PSE Type	End-span
Power Output	≤ 30W per port

L2 Features

L2 MAC Address	8k
Jumbo Frame	9216 Bytes
VLAN Group	256 (VLAN ID 1~4094)
VLAN Arrangement	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
Redundancy	IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE 802.1w-RSTP, X-Ring Pro, with ultra high-speed

Quality of Service (QoS)

Priority Queue Scheduling	WRR (Weighted Round Robin), SP (Strict Scheduling 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, MD5/TLS/TTLS/PEAP Encryption)

Management

DHCP	Client, Server, 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	SNTP client

Power ⁽²⁾

Power Input	24~48 V _{DC} , redundant dual power input
Power Consumption	12.1W @ 48V _{DC} (System)
Fault Output	1 Relay Output

LED Display

System LED	PWR1, PWR2, SYS, CFG, Alarm and R.M.
Port LED	Link / Speed / Activity / PoE

Environmental

Operating Temperature	-40° ~ +75°C (-40 ~ 167°F)
Storage Temperature	-40° ~ +85°C (-40 ~ 185°F)
Operating Humidity	10% to 95% non-condensing

Mechanical

Dimensions (W×H×D)	74 x 152 x 105 mm (2.91" x 5.98" x 4.13")
Installation	DIN-Rail
Protection Class	IP 30

1. SFP module sold separately
2. Power supply sold separately.

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