

BCD-HES-804M

8G+4SFP Port Gigabit Managed Redundant Industrial PoE Switch

INTRODUCTION

The BCD-HES-804M support 8 Gigabit IEEE 802.3 af/at PoE ports and 4 SFP (mini-GBIC) ports. They can provide up to 30 W per port for high-power-consumption powered devices. They are embedded with IXM function, which can benefit users with fast deployment and can save considerably engineering time and costs. The BCD-HES-804M series also support NMS to help IT managers with networking maintenance and failure prevention.

Finally, the series are equipped with X-Ring Pro, which can achieve ultra-high-speed recovery times of <20 ms to ensure network stability. The BCD-HES-804M in particular also features a wide operating temperature of -40 $^{\sim}$ 75°C and NEMA TS2 rating, making it ideal for use in traffic applications. Finally, the BCD-HES-804M have successfully passed the EN50121-4 European railway standard requirements for emissions and railway platform and track side deployment.



KEY FEATURES



802.1x (port-based, MD5/TLS/TTLS/PEAP encryption), RADIUS



Dual 48 VDC power input and 1 x relay output



NEMA TS2 for traffic control



EN50121-4 approval for railway trackside deployment



-40 ~ 75°C wide-range operating temperature



8 x IEEE 802.3 af/at PoE Gigabit ports + 4 x SFP ports



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INTERFACE

I/O Port

8 x 10/100/1000BASE-T/TX RJ-45 4 x SFP (mini-GBIC) port

Console Port

RS-232 (RJ45)

Power Connector

6-pin screw Terminal Block (including relay)

PHYSICAL

Enclosure

Metal Shell

Protection Class

IP 30

Installation

DIN-Rail

Dimensions (W x D x H)

74 x 152 x 105 mm (2.91" x 5.98" x 4.13")

ENVIRONMENT

Operating Temperature

-40 ~ 75°C (-40 ~ 167°F) (7712G-4FPI)

Storage Temperature

-40 ~ 85°C

Ambient Relative Humidity

10 ~ 95% (non-condensing)

Humidity

10 ~ 95% (non-condensing)

POWER

Power Consumption

12.1W @ 48VDC (System)

Power Input

48 VDC (46 to 57 VDC), 53 -57 VDC is recommended for 802.3at, redundant dual power input

Power Budget

240W

Fault Output

1 Relay Output

SECURITY

Port Security

Static, Dynamic IP Source Guard, ARP Spoofing Prevention, Access Control List, DHCP Snooping,

Authentication

802.1x (Port-Based, MD5/TLS/TTLS/PEAP Encryption), TACACS+

L2 FEATURES

L2 MAC Address

8K

Jumbo Frame

9216 Bytes

VLAN Group

256 (VLAN ID 1 ~ 4094)

VLAN Arrange

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 recovery time less than 20ms

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

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

NTF

SNTP client

CERTIFICATION

EMI

CE, FCC Class A

Safety

UL61010-2-201 IEC60950*

EMC

EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8 EN50121-4

Shock

IEC 60068-2-27

Freefall

IEC 60068-2-32

Vibration

IEC 60068-2-6

Traffic Control

NEMA TS2

Patent

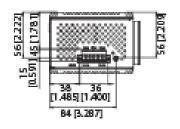
http://www.advantech.com/legal/patent



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Dimensions



Panel Cut-out Dimensions: $105 \times 152 \times 74 (4.134" \times 5.98" \times 2.913")$

