BCDVIDEO

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

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

NTP
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 x 152 x 74 (4.134" x 5.98" x 2.913")