

M-ETH

Access Gigabit Ethernet Module

Specifications

CAPACITY

Data Rate

UTP: 10/100/1000 Mbps, autonegotiation, half-/full-duplex

SFP: 100/1000 Mbps, full-duplex

Functionality

Ethernet switching

VLAN manipulation

Forwarding mode: Per port - bridge or flow

MDI/MDI-X crossover on RJ-45 interfaces

ETHERNET INTERFACES

Number of Ports

8 SFP or 8 UTP (Copper)

Connectors

8 x RJ-45, shielded

8 x SFP sockets (for SFP transceivers)

SFP Transceivers

For full details, see the SFP/XFP

Transceivers data sheet on www.rad.com

Note. SGMII interface (SFP-30) is not supported.

Flow Control

Enable/disable

Max. Frame Size

9600 bytes

Statistics

Per port

QUALITY OF SERVICE (QoS)

QoS

Per port traffic classification

Policing per port

Queues: 8, strict priority

Number of flows: 512 (per system)

RESILIENCY

G.8032v1 Ring (requires CL.2/A)

Supported between ports on the same module

TIMING

Internal module clock

System clock (Sync-E requires /SYE ordering option and CL.2/A)

GENERAL

Environment

Operating temperature:

-10°C to 55°C (14°F to 131°F)

Storage temperature: -20°C to +70°C (-4°F to +158°F)

Humidity: up to 95%, non-condensing

Indicators

LINK (green) - LAN link integrity

ACT (yellow) - LAN data activity

Power Consumption

10W max (excluding SFPs)

Ordering

RECOMMENDED CONFIGURATIONS

MP-4100M-ETH/UTP

Dedicated GbE module with 8 10/100/1000 Mbps UTP (RJ-45 connectors)

MP-4100M-ETH/SFP

Dedicated GbE module with 8 100/1000 Mbps SFP sockets

MP-4100M-ETH/UTP/SYE

Dedicated GbE module with 8 10/100/1000 Mbps UTP (RJ-45 connectors), enabling distribution of Sync-E clock

MP-4100M-ETH/SFP/SYE

Dedicated GbE module with 8 100/1000 Mbps SFP sockets, enabling distribution of Sync-E clock

Note. M-ETH options with SYNC-E distribution are supported only with CL.2/A starting from HW Rev. 1.1 and higher.

Note. It is strongly recommended to order M-ETH with original RAD SFPs installed. RAD cannot guarantee full compliance to product specifications for M-ETH units using non-RAD SFPs.

SPECIAL CONFIGURATIONS

Please contact your local RAD partner for additional configuration options

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