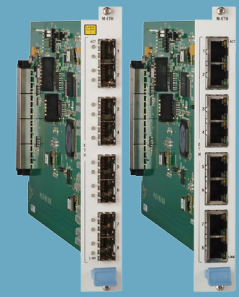


# Megaplex-4 M-ETH

## Access Gigabit Ethernet Module



- Eight GbE interfaces
- Carrier Ethernet capabilities: traffic management, OAM and PM
- G.8032 Ethernet Ring Protection Switching
- IEEE-1613 compliant option

M-ETH is a high-density, 8-port I/O module that enables cost-efficient Gigabit Ethernet connectivity. It provides the Megaplex-4 multiservice access nodes with multirate FE/GE interfaces.

The M-ETH module can be used to provide LAN connectivity among Ethernet ports on the same module, as well as Ethernet services, thus eliminating the need for an external switch while providing a dependable Ethernet connectivity solution.

Coupling the Ethernet I/O module with the CL.2/A module adds Service Assured Access capabilities to Megaplex, allowing operators to more easily plan, deploy, provision, and maintain existing and new

services with lower TCO, while offering resilient, always-on service with predictable QoS/QoE.

M-ETH complements the ability of Megaplex-4 to handle a broad range of Ethernet, data and voice services, meeting all Service Assured Access and Service Migration Hybrid Access solution needs.

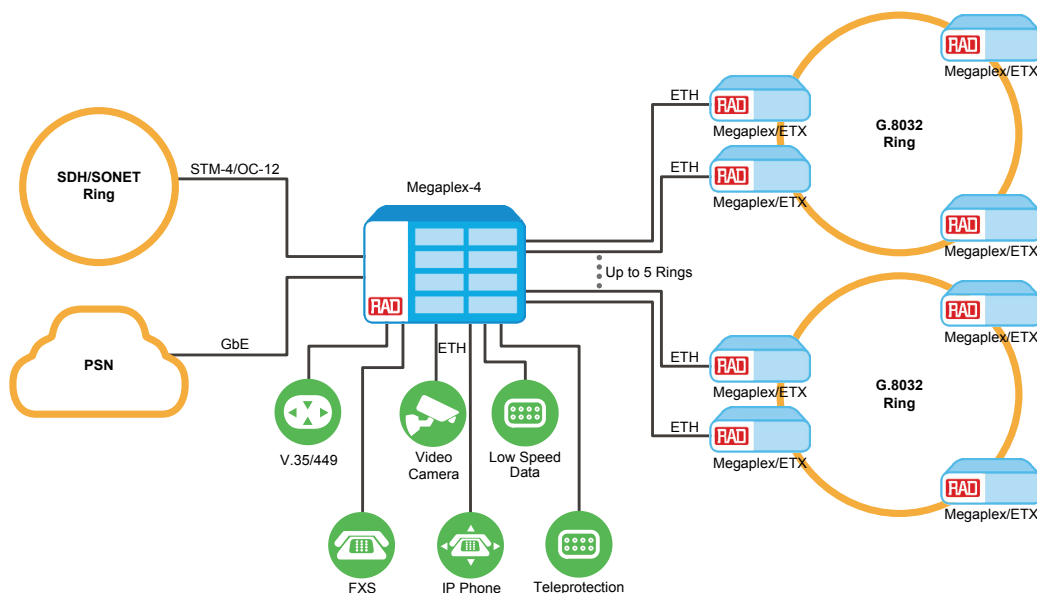


Figure 1. Access and Aggregation with Multiple Ethernet Rings and Multiple Ethernet Devices

## 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](http://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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