

HIGHLIGHTS

- Redundant and Hot Swappable modules
- Sub-50 millisecond module and transport recovery
- Flexible pluggable optics
- Full Integration with Broadband Access Manager (BAM)
- Advanced Event and Alarm Reporting
- Support for trunked 1-Gigabit Ethernet and 10-Gigabit Ethernet transport links
- Distributed Multicast Processing optimized for IPTV

DESCRIPTION

At the core of the MAGNM architecture are the redundant Fabric Modules. These powerful Fabric Modules, each with throughput exceeding 340 Million Packets per second, coupled with the distributed forwarding capability of the MAGNM Subscriber Modules, provide a massively scalable system that provides the horsepower to meet the bandwidth challenges of today and the future.

The MAGNM fabric modules provide inter-module and transport connectivity as well as device aggregation. The second generation F-82xx series fabric module provides 10 times greater performance for inter-module communication than the first generation F-8108 fabric module. While optimized for GPON and 1 Gigabit Fiber to the Home applications, the F-8208 fabric can provide connectivity for any MAGNM application including mixed copper and fiber deployments.

The Fabric Module provides multiple 1Gb/s Ethernet ports via Small Form Factor Pluggable (SFP) optics and 10/100/1000Mb/s Ethernet ports, as well as modular 10Gb/s Ethernet XFP ports. The transport links can be used individually or can be trunked together using 802.3ad link aggregation to form a higher speed virtual link, cost effectively increasing transport capacity. The fabrics are typically deployed in a redundant fashion in each MAGNM system to ensure maximum resiliency. This redundant configuration provides sub 50ms failover and recovery in the event of a transport link or fabric failure. Additionally the Fabric Modules provide a clear separation between the transport network and the subscriber access network, ensuring that insertion or removal of an access module does not affect the transport network.



KEY FEATURES

- 6 1-Gb/s Ethernet SFP ports and 4 10/100/1000 Mb/s Ethernet RJ-45 ports
- Multiple 10-Gb/s Ethernet XFP ports
- IGMP Snooping optimized for IPTV deployments
- Flexible L2-L4 Access Control Lists
- Fully Manageable with Broadband Access Manager (BAM)

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MAGNM™ F-82xx Series High Performance Fabric Modules

Specifications

Interfaces

- 6 1-Gb/s Ethernet SFP ports
- 4 10/100/1000 Mb/s Ethernet RJ-45 ports
- 2 10-Gb/s Ethernet XFP ports (F-8208)
- 4 10-Gb/s Ethernet XFP ports (F-8210)

General

- IEEE 802.1D/w/S — Spanning Tree
- IEEE 802.1Q — Virtual LANs with Port based VLANs
- IEEE 802.1p — Ethernet Priority with User Provisioning & Mapping
- IEEE 802.1v — Protocol-based VLANs
- IEEE 802.3 — 10 Base-T
- IEEE 802.3u — 100 Base-T
- IEEE 802.3ab — 1000 Base-T
- IEEE 802.3ac — VLAN Tagging
- IEEE 802.3ad — Link Aggregation
- IEEE 802.3ae — 10 Gigabit Ethernet
- IEEE 802.3x — Flow Control
- Jumbo Ethernet Frames
- RFC-3619 EAPS with extensions

Management

- SNMP v1 and v3
- Command Line Interface via RS-232, Telnet, and SSH
- XML
- SYSLOG
- SNTP
- TFTP
- Port Mirroring

Compliance

- NEBS Level 3 (GR-63-CORE/GR-1089-CORE)
- EMC: FCC part 15 Class A, EN55022
- Safety: UL/CSA 60950, EN60950/IEC 950
- Telecom: US TIA IS 968, Canada
- CS03, EU RTT & E directive 1999/5/EC

Environmental

- Ambient Operating temperature -40° to 65°C
- Relative Humidity: 10 to 90% non-condensing

Ordering Information

- **F-8208**
- Fabric module with 2 XFP port, 6 SFP port, 4 10/100/1000 ports. (Optics sold separately)
- **F-8210**
- Fabric module with 4 XFP port, 6 SFP port, 4 10/100/1000 ports. (Optics sold separately)

About Enablence

Enablence Technologies Inc., (TSX: ENA-V) a publicly traded company headquartered in Ottawa, Canada, designs, manufactures and sells optical components, subsystems and systems to a global customer base.

Enablence's Systems Division has an expanding fiber-to-the-premise (FTTP) product portfolio featuring a variety of architectural options. It enables service providers to evolve their access networks from traditional copper-based networks to advanced optical communications access networks that are based on state-of-the-art IP and Ethernet standards, for triple-play voice, video and data services including HDTV, IP Telephony and ultrafast internet access. The Division's network equipment has been deployed with 420 service providers worldwide that serve over 4 million subscribers.

Enablence's Optical Components and Subsystems Division is a global leader in applying Planar Lightwave Circuit (PLC) technology to integrate multiple components into a single optical chip to reduce footprint and costs. Network and equipment designers around the world turn to Enablence for a variety of components and subsystems for access, metro and long-haul including transceivers, splitters, waveguides, optical channel monitors, multiplexers, ROADMs, switches, tunable dispersion compensators, and photodiodes. The Division serves over 120 system and subsystem developers and its products have been integrated in all major communications networks worldwide, serving tens of millions of subscribers.