

COHERENT TRANSPONDER AND MUXPONDER

AMX3200



AMX3200 is a new generation coherent transponder and muxponder with 3.2 Tbps switching capacity that is designed for building high-capacity optical transport networks. AMX3200 is designed and built as a disaggregated system to offer flexibility with different NOS options in modular sled-based line modules. AMX3200 is designed to expand Datacenter Interconnect (DCI) and service provider backhaul over the coherent-wavelength-supporting C-band channel in different applications based on CFP2-DCO specifications.

Specifications

- AMX3200 has two sleds, and each sled supports up to 8 x QSFP+/QSFP28 client interfaces and 2 x 400G (CFP2-DCO) line interfaces.
- AMX3200 can upgrade with other types of interface sleds in future, which enables a smooth migration during capacity expansion.

Key Highlights

Redundancy

- AMX3200 has two modular sleds in the front and redundant PSU and fan slots in the rear. This platform has 4+1 fan modules to provide redundancy over a single fan failure situation. AMX3200 supports PSUs in a 1+1 load-sharing redundant mode.

Pay-as-you-Grow Model

- AMX3200 is a 1 RU system that offers a chassis-like flexibility with modular components keeping costs in check. Each sled supports 8 x QSFP+/QSFP28 client interfaces and 2 x 400G (CFP) line interfaces, which are sufficient for day-one requirements and can be expanded using a second sled. Service providers have the flexibility to offer high capacity based on end-traffic requirements.

PTP Functionality

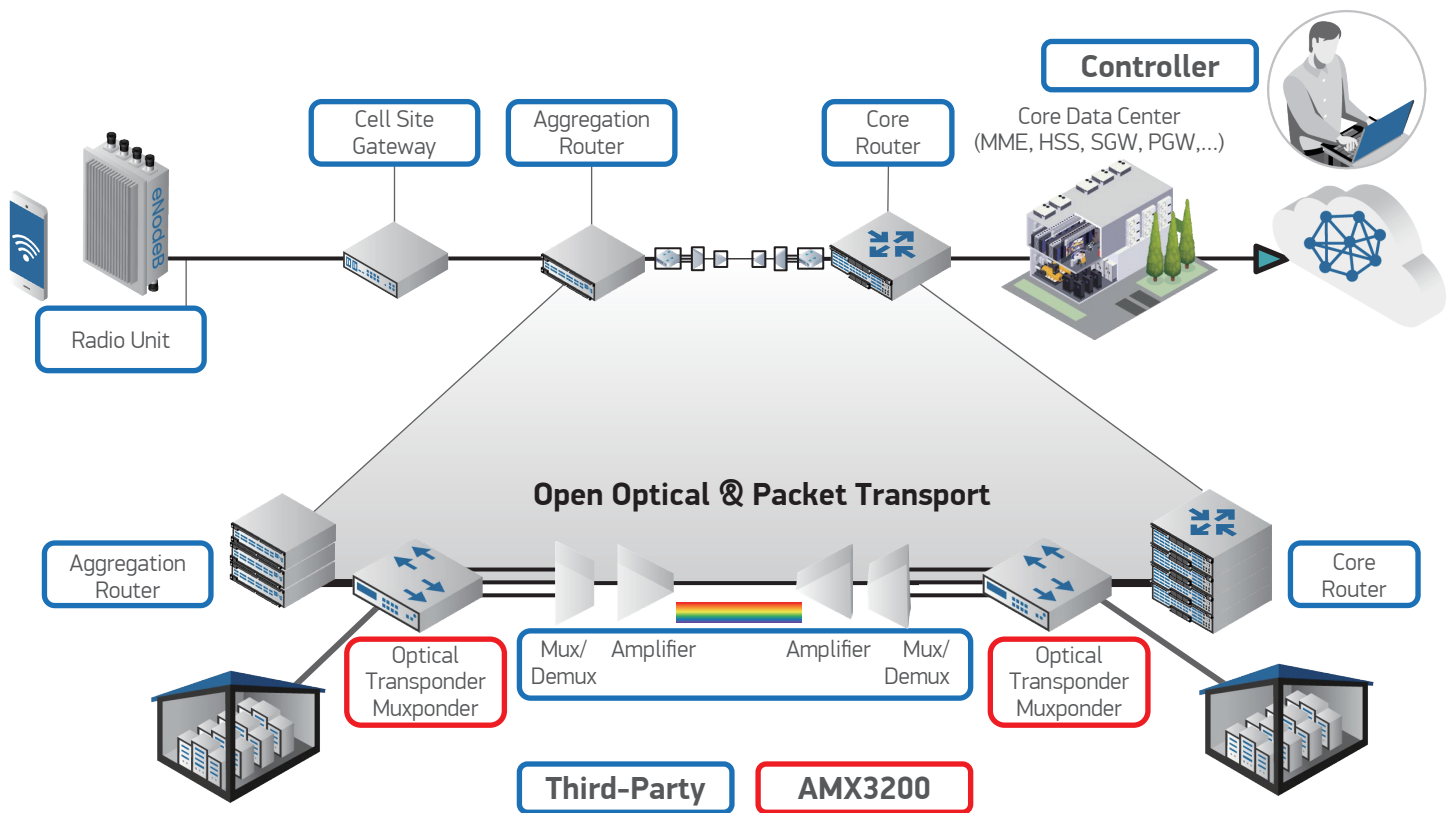
- AMX3200 supports PTP (IEEE 1588v2) timings up to Class C and provides a PPS output for the two-sled design. The PTP function allows AMX3200 applications in telco environments at aggregation/edge locations.

Interoperability

- AMX3200 is an open and disaggregated system in hardware and software capacity, allowing service providers and operators to build solutions with different combinations of components, such as NOS, optics, and interfaces.

Application and Use Case

The muxponder enables capacity expansion and flexibility for fiber optic connectivity in wavelength division multiplexing (WDM) and dark fiber applications, which offers ideal solutions for data center, service provider, and telco operators.



Important Features

- 100G/200G/300G/400G high capacity for 1000KM/2000KM long-haul transmission
- Complies with OIF400ZR, OpenZR+, and OpenROADM industry standards
- Supports 400G, 300G, 200G, and 100G optical line rates over modulation formats DP-16QAM, DP-8QAM, DP-QPSK, and dQPSK
- 4 × 100G/200/300/400G discrete, pluggable network ports up to 16 × 100 GbE/OTU4 (QSFP28)
- Modular 1RU sled design
- Maximum 1.6 Tbps capacity per sled
- Supports in-band management
- Supports DCI, metro networks
- Supports gearbox, re-timer/crosspoint/2:1 hitless mux

Specifications

Ports

- AMX3200 Ports:
 - 16 x QSFP28 ports. Each port supports 1 x 40/100 GbE
 - 2 x sleds for CFP2-DCO modules, supports 100G/200G/300G/400G
- Management Ports on Port Side:
 - 1 x RJ-45 RS232 console
 - 1 x RJ-45 100/1000BASE-T management
 - 1 x 1G SFP management
 - Micro-USB USB2.0 connector

Key Components

- CPU Modules:
 - Intel® Atom® C Series C3508
 - DDR4: SO-DIMM 8 GB x 1 (support up to 16GB)
 - SPI Flash: 16MB*2
 - m.2 SSD: 128 GB MLC
 - TPM 2.0 enabled.

Performance

- AMX3200 Capacity: 3.2 Tbps full duplex
- Jumbo frames support up to 9216 Bytes

Physical and Environmental

- Dimensions (WxDxH): 438.4 mm x 430 mm x 43.5 mm
- Weight: 10.28 kg (22.66 lb), with 2 PSUs and 5 fans installed
- Operating Temperature: 0°C to 45°C (32°F to 113°F)
- Storage Temperature: -40° C to 70° C (-40° F to 158° F)
- Operating Humidity: 5% to 95% (non-condensing)

Software

- AMX3200 is loaded with Open Network Install Environment (ONIE) software installer
- Compatible with the following NOS options: open source options, plus commercial NOS offerings.

LEDs

- Sled Port LEDs: Link Status, Activity, Speed
- Ethernet Management Port LED: Link Status, Activity
- System LEDs: Diagnostic, Locator, PSU and Fan Status
- Modules LED: Link Status, Activity, Speed

Power

- PSUs: 1+1 redundant, load-sharing, hot-swappable
- Input Voltage: 100-240VAC at 50-60 Hz; -40 to -72 VDC
- PSU capacity 1200 W (Max system power consumption 850 W)

Warranty

Please check www.edge-core.com for the warranty terms in your country.

For More Information

To find out more about Edgecore Networks Corporation products and solutions, visit www.edge-core.com.

About Edgecore Networks Corporation

Edgecore Networks Corporation is in the business of providing innovative network solutions. In the service provider network, in the data center or in the cloud, Edgecore Networks Corporation delivers the software and systems that transform the way the world connects. Edgecore Networks Corporation serves customers and partners worldwide. Additional information can be found at www.edge-core.com.

Edgecore Networks Corporation is a subsidiary of Accton Technology Corporation, the leading network ODM company. The Edgecore data center switches are developed and manufactured by Accton.

To purchase Edgecore Networks solutions, please contact your Edgecore Networks Corporation representatives at +886 3 563 8888 (HQ) or +1 (949)-336-6801 or authorized resellers.

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Ordering Information

Part-code	Description
AMX3200-O-AC-F	
AMX3200-O-AC-F-US	
AMX3200-O-AC-F-UN	1200 W AC PSU front-to-back airflow
AMX3200-O-AC-F-EU	1+1 redundant load-sharing, hot-swappable (73.5 mm W x 185 mm D)
AMX3200-O-AC-F-JP	Fan-tray modules with 5 pcs of 40.5 mm x 70.14 mm 12V fans, hot-swappable.
AMX3200-O-AC-F-CN	Sled configuration OTN Supported: 2 x 400G CFP + 8 x 100G QSFP28
AMX3200-O-AC-F-TW	
AMX3200-O-48V-F	1200 W DC PSU front to back airflow
	1+1 redundant load-sharing, hot-swappable (73.5 mm W x 185mm D)
	Fan-tray modules with 5 pcs of 40.5 mm x 70.14 mm 12V fans, hot-swappable.
	Sled configuration OTN Supported: 2 x 400G CFP +8 x 100G QSFP28
AMX-3200-SLED400	AMX3200 2 x 400G CFP+8 x 100G sled
AMX-3200-FAN	AMX3200 support 4+1 fan modules
AMX-3200-AC-PSU AC PSU module	
AMX-3200-48V-PSU DC PSU module	AMX3200 support 1+1 load sharing PSU