

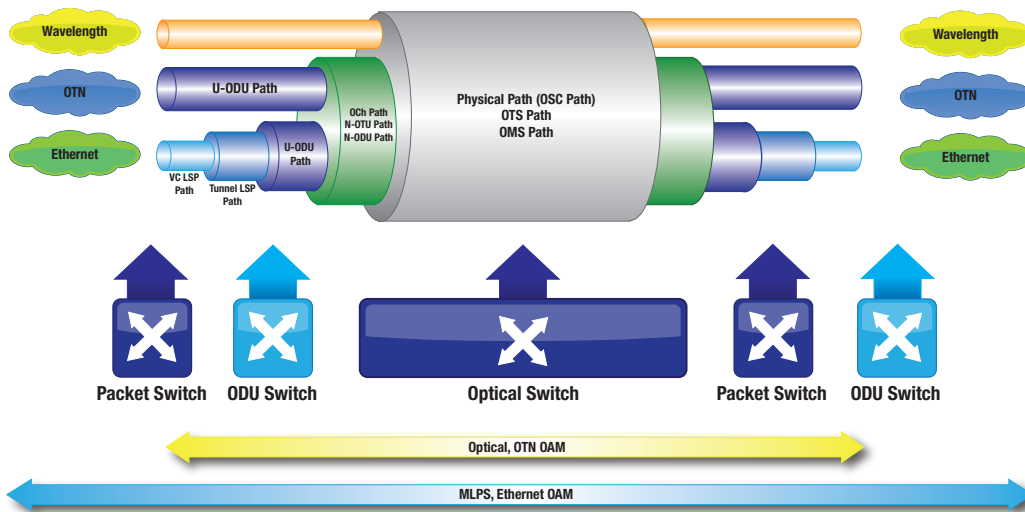
DATA SHEET

AMN6400 Packet Optical Transport Platform

Combine packet and optical in a single, compact, scalable platform

The Hitachi AMN6400 packet optical transport platform (POTP) combines dense wavelength division multiplexing (DWDM), time division multiplexing (TDM), and packet services in a single compact and scalable platform. The AMN6400 is the next evolutionary step for Hitachi's industry-leading optical and switching technologies, and capitalizes on Hitachi's optical and packet expertise.

The AMN6400 can cross-connect and manage at the optical, TDM (SONET/SDH and OTN), and packet (Ethernet and MPLS-TP) layers simultaneously, collapsing multiple network elements into a single, manageable unit. TDM services can be transported either transparently as a transport system or label switched via pseudowire emulation (PWE) as a packet system. Whatever your network design, today or in the future, the AMN6400 can adapt to meet your requirements.



Compact and scalable design

The AMN6400 POTP is designed to fit into any central office, headend, or datacenter. The AMN6400 fits into either a 19 inch or 23 inch rack, meets the industry standard 12" depth requirement (including fiber management), and is only 16 rack units tall.

The AMN6400 management plane and hardware is designed to make expanding the platform simple and painless. Up to 50 individual shelves may be combined into a single network element, scaling switching and transport capacity accordingly.

From metro to long haul, flat networks to multi-layer network

The unique compact size and low startup cost of the AMN6400 POTP makes it ideal for smaller carriers who want to start with a capacity expansion today, but dream of growing to a packet core network in the future. Building a network today with the AMN6400 ensures that the hardware will be in place for many network evolutions in the future.

Interfaces on the AMN6400 are available to support middle-mile expansion, metropolitan networks, and long haul networks from a single platform, reducing the total number of manageable elements in your network and lowering overall operational expenses.



100Gbps Architecture

The architecture of the AMN6400 is designed around 100Gbps transport. The hardware is designed to support 100Gbps per slot, scalable to 200Gbps per slot as technology advances.

MPLS-TP Switching

The core switch fabric of the AMN6400 is based on MPLS-TP for low latency, high switching speed, and scalability. MPLS-TP encapsulates rather than converts packet traffic like Ethernet, ensuring transparency and increasing throughput speeds.

Optional Switch Fabric

For network operators or applications that do not require switching below the optical layer, the switch fabric slots card slots can be re-purposed as optical transport slots. This allows the AMN6400 to be a compact DWDM/transponder platform without wasting valuable, revenue-generating real estate.

AMN6400 Specifications

	Muxponders	4x10G to 40Gbps 10x10G to 100Gbps
	Transponders	10Gbps, 40Gbps, 100Gbps
	Packet Interfaces	Gigabit Ethernet, 10G Ethernet, 40G Ethernet, 100G Ethernet, 155Mbps – 2.4Gbps multirate TDM to PWE
	OTN Interfaces	10Gbps, 40Gbps, 100Gbps
Modulation Formats	40Gbps	DQPSK
	100Gbps	DP-QPSK/coherent, low-cost APSK/non-coherent
ROADM		8 degree, fully flexible add/drop, integrated amplifiers, integrated OSC 2 degree, fully flexible add/drop, integrated amplifiers, integrated OSC
Optical Amplifiers		EDFA, Raman
Wavelength range		88 wavelengths (C-Band) 196.05 THz (1529.16 nm) to 191.70 THz (1563.86 nm)
Interface slots	Number of slots	12 (2 can be used for switch fabric)
	Bandwidth per slot	100Gbps, upgradable to 200Gbps
Switch fabric	OTN switching	ODU-0, ODU-1, ODU-2, ODU-3, ODU-4
	Packet switching	MPLS-TP
	Capacity	1Tbps per shelf, scales to 2Tbps per shelf
Management Interfaces		TL1, Web, EMS, Housekeeping, Inter-shelf connection (ISC), GMPLS control plane, control plane access for PCE
Power	Power Supply	-48Vdc (Redundant)
	Power Draw	2.3kW max. (fully loaded, worst case) 880W max. (fully loaded, best case)
Physical	Rack size	Mountable in either 19" or 23" standard racks
	Height	16RU
	Depth	12 inches (300mm)
	Weight	77 pounds (without cards) ~150 pounds (fully loaded)

Specifications are subject to change without notice. Product information is provided for general guidance only, and does not constitute a warranty. AMN is a trademark of Hitachi Communication Technologies, Ltd. Other product names are trademarks of their respective owners.

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