



AMN6200



Center Unit



Local Unit

**Hitachi WDM system enables
single-fiber bidirectional transmission
and long-haul transmission.**

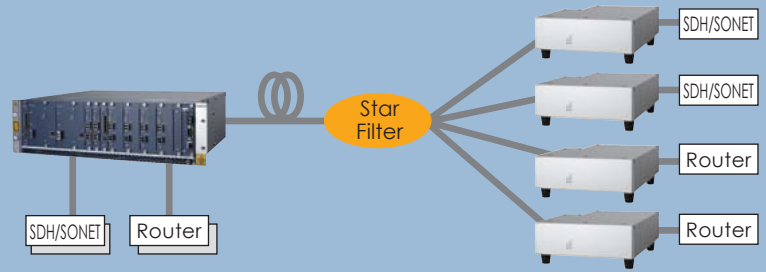
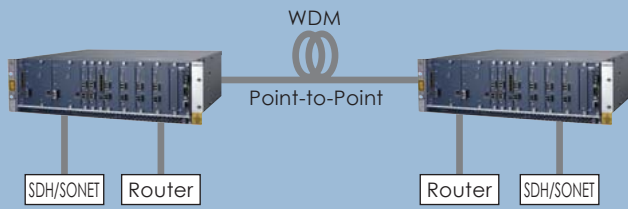
The Hitachi AMN6200, a wavelength division multiplexing (WDM) system for metro networks and enterprise networks, enables bidirectional transmission and long-haul transmission over a single optical fiber. The AMN6200 enables a flexible, scalable, and cost-effective network to be built.

The center unit of the AMN6200 system accommodates both coarse wavelength division multiplexing (CWDM) and dense wavelength division multiplexing (DWDM) products on the same shelf.

Hitachi WDM System AMN6200

WDM System for Metro & Enterprise Networks

Example of Network System Configuration



Single-Fiber Bidirectional Transmission

- 8-wavelength CWDM
- 32-wavelength DWDM

10 Gbit/s Long-Haul Transmission

- In a CWDM system, forward error correction is applied to 10 Gbit/s signal, achieving transmission of 80 km and more, without dispersion compensating fiber nor optical amplifiers.
- In a DWDM system, optical amplifiers are used for both transmission and reception, thereby achieving an optical budget of 33 dB for bidirectional transmission over a single optical fiber and 35 dB for unidirectional transmission over two optical fibers.

Mixture of Client Interfaces

- The AMN6200 can accommodate mixture of interfaces ranging from SDH/SONET STM-1/OC-3 to STM-64/OC-192 and from 10 Mbit/s to 10 Gbit/s Ethernet and from Fibre Channel 1 Gbit/s to 4 Gbit/s, as well as other multiplexing interfaces.
- An optical switch-based protection card provides redundancy for each accommodated client channel.

Diverse Network Configurations

- Allows flexible network configurations such as the point-to-point, ring, star and linear bus.
- Monitors the state of all local units from the center unit by achieving in-band remote monitoring.

Multi-rate Transponder Technology

- Transponder: 600 Mbit/s ~ 4 Gbit/s
- Repeater: 3R (Reshaping, Retiming, Regenerating) repeater

Specification

		Center unit (Shelf type)	Local unit
Network topology		Point-to-Point/Ring	Linear Bus/Star*1
Transmission method		Single-fiber bidirectional transmission/ Two-fiber unidirectional transmission	Single-fiber bidirectional transmission
Wavelength		CWDM: 8 wavelengths (max) DWDM: 32 wavelengths (max)	CWDM: 2 wavelengths per unit
Wavelength range		DWDM: 1,530~1,565 nm / CWDM: 1,471~1,611 nm (ITU-T G.694.1/G.694.2)	
Maximum transmission loss*2		CWDM (Single-fiber bidirectional): 28 dB DWDM (Single-fiber bidirectional): 33 dB DWDM (Two-fiber unidirectional): 35 dB	
Dispersion tolerance		1,600 ps/nm	
WDM interface	Number of ports	2	1
	Optical fiber	SMF(ITU-T G.652) / DSF(ITU-T G.653)	
	Optical connector	MU	
	Client interface type	10BASE-T, 100BASE-TX, 1000BASE-SX/LX, 10GBASE-LR/ER, STM-1/OC-3, STM-4/OC-12, STM-16/OC-48, STM-64/OC-192, FC 1G, FC 2G, FC 4G	10BASE-T, 100BASE-TX, 1000BASE-SX/LX, STM-1/OC-3, STM-4/OC-12, STM-16/OC-48
	Optical fiber	MMF/SMF/DSF (ITU-T G.651 / G.652 / G.653)	
	Optical connector	LC	
Management interface		SNMP/Telnet/Web/Housekeeping	-
Remote monitoring function		Allows a center unit to obtain alarm and monitoring information of the far end units (center unit/local unit).	
Power	Power supply	-48 VDC / 100~250 VAC*3	-48 VDC / 100~250 VAC
	Power consumption	250 W max (fully loaded)	25 W max
Cooling		Fan cooling	
Environmental	Operating temperature range	5 to 40 °C	
	Humidity	5 to 85 %, no condensation	
Physical	External dimensions	432(W)x400(D)x132(H) mm (19-inch rack mountable)	210(W)x282(D)x89(H) mm
	Mass	25 kg max (fully loaded)	3 kg

*1: These topologies are a combination of a center unit and local units.

*2: Maximum transmission loss figures shown above are when a network configured with point-to-point connections.

*3: The center unit is equipped with a redundant power supply.

Center Unit



10 Gbit/s transponder (4-slot width)
GbE / FC transponder (1-slot width)
STM-1/OC-3, STM-4/OC-12, STM-16/OC-48 (2-slot width)
Wavelength division multiplexer (1-slot width)

Manager
Universal slots
(21 slots)

Local Unit (AC type)



Power supply WDM interface Client interface

- Ethernet is a registered trademark of Xerox Corp.
- All other tradenames are the property of their respective owners.

To ensure safety and normal operation, be sure to read the operation manual carefully before using the instrument. Product appearance and specifications are subject to change without notice.

HITACHI

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