

Full-Function, economical FTTP Solution Using PON & WDM Technologies

Hitachi's AMN1200 Optical Line Terminal (OLT) is an optical access platform that supports cost-effective FTTP applications to single-family residences, multi-dwelling units, and small offices/home offices (SOHO) over a single optical fiber.

Highlights:

- Cost-effective broadband access over a single optical fiber shared by up to 32 end users per PON line (22 PON lines per OLT chassis)
- Supports multiple AMN1200 ONTs (ETU, EHU, MDU, SFU)
- Single, dual, and triple-play applications
- Passive network requires no maintenance and leads to lower opex and capex than networks with active components in the loop
- Bandwidth data rates up to 100x greater than coax or copper broadband access solutions
- Long access distance (up to 20km from CO to customer premises)
- Configurable bandwidth priority enables support of;
 - "Triple-Play" applications (high-speed data, voice, video)
 - Service Level Agreements (SLAs) with QoS
- FSAN compliant (ITU-T G.983.1, G.983.3 & G.983.4 standards)
- Supports per-user bandwidth control and Dynamic Bandwidth Assignment (DBA)
- Scalable architecture that offers economical path from initial rollout to high-volume deployment
- Highly functional network management solution that integrates NMS and EMS in a common carrier class platform (N-EMS) with SNMP-based remote management

Applications:

- Fiber-to-the-Home "Triple-Play" services; delivery to over 700 customers per AMN1200 OLT shelf (2816 per rack)
- Voice, video, and data service delivery throughout a community or development
- Wide area, high-speed Ethernet services
- Broadband Internet services from home or SOHO via FTTP
- Ethernet extension in office, R&D, and factory locations to offer private-line services
- Large services revenue potential for apartment building environments
- Provides a wholesale bandwidth pipe in new developments over a single optical fiber per home

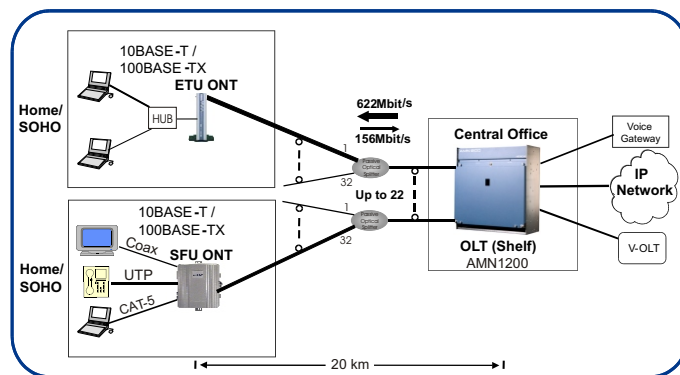
AMN1200 OLT

FSAN Compliant BPON
Optical Line Terminal (OLT)



Specifications:

Item		Central Node OLT (AMN1200)
Optical interface	Transmission method	FSAN Standard B-PON (ITU-T G.983.1 Class B, G.983.3, G.983.4)
	Optical line rate	Downstream: 622 Mbit/s, upstream: 156 Mbit/s
	Logical speed (per user)	100 Mbit/s (best effort)
	Connection cable	Single-mode optical fiber
	Connector	SC connector
	Wavelength	Upstream : 1310nm voice/data, Downstream : 1490nm voice/data, 1550nm video
	Transmission distance	20 km max.
	Number of lines	22 max. (1 per PON IF card)
	Number of branches (users)	32 max. per line (704 per OLT)
Network interface	Physical interface	100BaseTX
	Connector	RJ 45
	Number of interfaces	4 per PON IF
Management interface	Protocol	SNMP
	Interface	10BASE-T
	Number of ports	1
MAC functions		VLAN function: IEEE 802.1Q tagged frame distribution function
Power supply		-40.5 to -57.0 VDC
Power consumption		380 W approx.
Cooling		Fan cooling
Physical dimensions	External dimensions (W x D x H)	427mm x 456mm x 442mm (16.8" x 17.9" x 17.4")
	Weight	30 kg approx. (66.1lbs)
Environmental	Operating temperature	5 Degrees to 40 Degrees Celsius
	Humidity	5 to 85% [No condensation]
Compliance		UL, FCC



Company and product names are trademarks of their respective companies. Specifications and equipment are subject to change without notice. For details about the product, contact your sales representative.

Networking Solutions Department
International Operations Division
(Information & Telecommunications Systems)
Hitachi, Ltd.
27-18 Minami-Oi, 6-Chome
Shinagawa-ku, Tokyo 140-8572, Japan
TEL: +81-3-5471-3261 FAX: +81-3-5471-3286

AMN1200OLT-050605

Hitachi Telecom (USA) Inc.
3617 Parkway Lane
Norcross, GA 30092
TEL: 770-446-8820
FAX: 770-797-2550
www.hitachitelecom.com