

Smart Compact Optical Receiver FTTx Solution

AON1200D Series



- **1 GHz forward working frequency**
- **Redundant optical signal inputs**
- **≤ 116 dB μ V output**
- **Advanced optical AGC**
- **High-performance low power consumption GaAs chip Technology**
- **Electric control circuit for EQ and ATT**
- **Built-in Ethernet transponder**
- **SNMP & Web GUI**

Ascent's AON1200D outdoor optical receiver is our latest 1GHz dual-way switch optical receiver. With wide range receiving optical power, high output level, low power consumption. It is the ideal equipment to build the high-performance NGB network.

This product adopt advanced optical AGC control range from +2dBm to -9/-8/-7dBm adjustable. EQ and ATT both use the professional electric control circuit, make the control more accurate and operation more convenient.

Built-in the Ethernet transponder, support remote network management (optional)

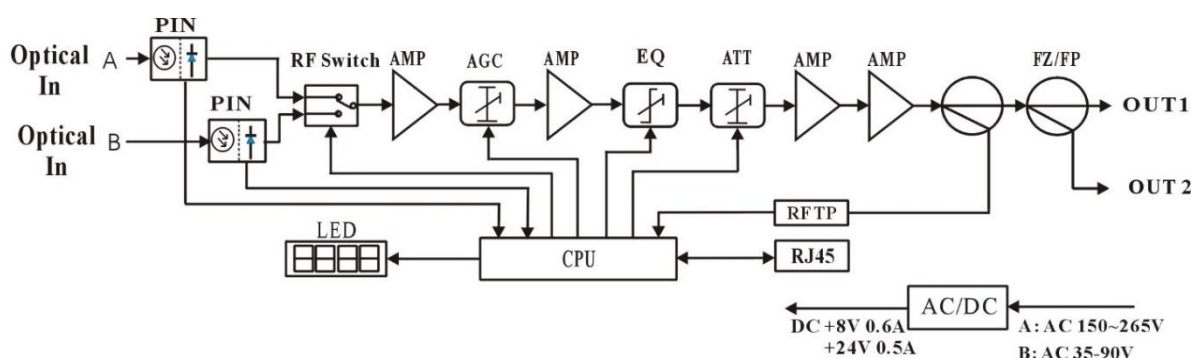
It is part of ACT Deep Fiber solution, which has been designed to deliver high quality CATV and other advanced services. The cost-effective node platform with compact structure and convenient installation helps operators expand bandwidth of their existing HFC network while minimizing capital investment.

AON1200D node provides the web management interface to support the remote monitoring capability in advanced network management system.

Key Features

- Adopt advanced optical AGC technique, optical AGC control range: +2dBm to -9/-8/-7dBm adjustable
- Two-Way optical signal received, back up each other, arbitrarily set the auto-switching conditions and can also be set to manual switch
- Forward working frequency extended to 1GHz, RF amplifier part adopts the high performance low power consumption GaAs chip, the maximum output level up to 116dBμV
- EQ and ATT both use the professional electric control circuit, make the control more accurate, operation more convenient
- Built-in the Ethernet transponder, support remote network management (optional)
- With compact structure, convenient installation, it is the first choice equipment of FTTB CATV network
- Built-in high reliability low power consumption power supply

Block Diagram



End to End Element Management System with Local LED, Web GUI and SNMP

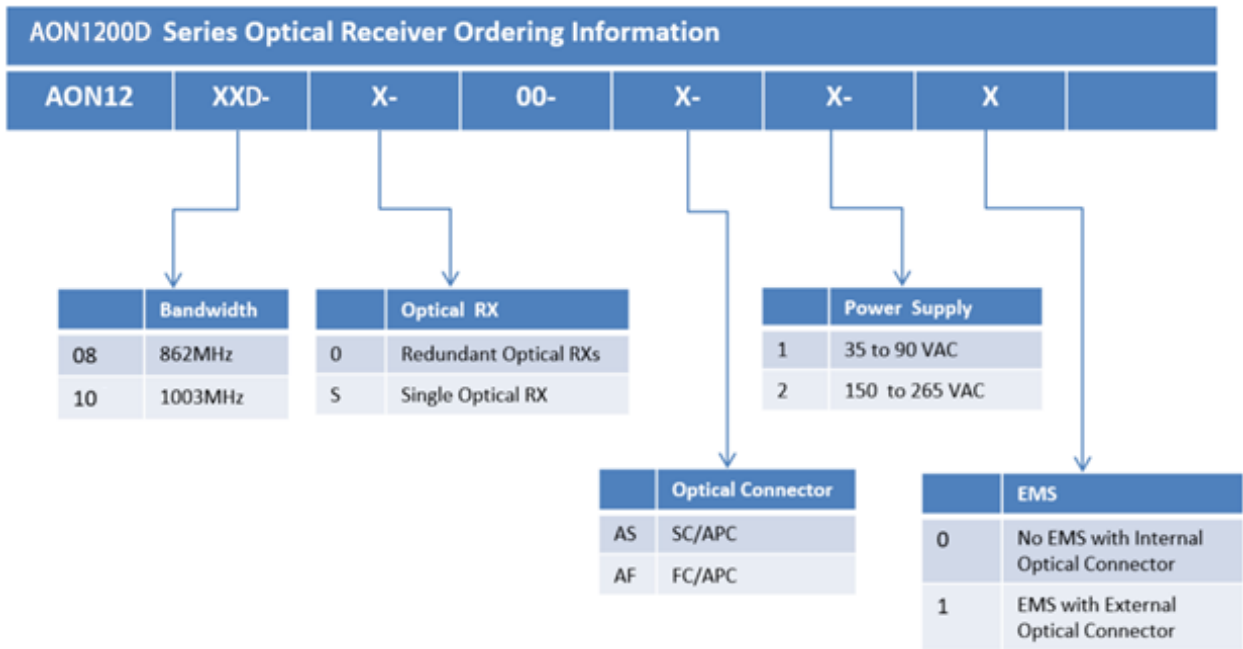
Specifications

Technique Parameters

Item	Unit	Technical Parameters	
Optical Parameters			
Receiving Optical Power	dBm	-9 to +2	
Optical AGC Control Range	dBm	+2 to -9/-8/-7(adjustable)	
Optical Return Loss	dB	>45	
Optical Receiving Wavelength	NM	1100 to 1600	
Optical Connector Type		SC/APC or specified by the user	
Fiber Type		Single mode	
Link Parameters			
C/N	dB	≥ 51	EQ 8dB, Output level 108 dBμV (FZ110)
C/CTB	dB	≥ 67	
C/CSO	dB	≥ 62	
RF Parameters			
Frequency Range	MHz	45 ~862/1003	
Flatness In Band	dB	±0.75	
Rated Output Level	dBμV	≥ 108	
Max Output Level	dBμV	≥ 112 (-9 to +2dBm Optical power receiving)	
		≥ 116 (-7 to +2dBm Optical power receiving)	
Output Return Loss	dB	≥16	
Output Impedance	Ω	75	
Electrical Control EQ Range	dB	0 to 15	
Electrical Control ATT Range	dB	0 to 15	
General Characteristics			
Power Voltage	V	A: AC (150 to 265) V B: AC (35 to 90) V	
Operating Temperature	°C	-40 to 60	
Consumption	VA	≤14	
Dimension	mm	235 (L) × 150 (W) × 108 (H)	

Note: The forward RF indexes above are tested when adopt NEC module. Use other module, the indexes will be a little different.

Ordering Information



Contact Information



Ascent Communication Technology Ltd

AUSTRALIA

140 William Street, Melbourne
Victoria 3000, AUSTRALIA
Phone: +61-3-8691 2902

CHINA

Unit 1933, 600 Luban Road
200023, Shanghai CHINA
Phone: +86-21-60232616

EUROPE

Pfarrer-Bensheimer-Strasse 7a
55129 Mainz, GERMANY
Phone: +49 (0) 6136 926 3246

HONG KONG SAR

Unit 9, 12th Floor, Wing Tuck Commercial Centre
177 Wing Lok Street, Sheung Wan, HONG KONG
Phone: +852-2851 4722

USA

2710 Thomes Ave
Cheyenne, WY 82001, USA
Phone: +1-203 816 5188

VIETNAM

15 /F TTC Building, Duy Tan Street
Cau Giay Dist., Hanoi, VIETNAM
Phone: +84 243 795 5917

WEB: www.ascentcomtec.com

EMAIL: sales@ascentcomtec.com

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Ver. ACT_AON1200D_Optical_Node_Datasheet_V1b_Sep_2022