

Smart Compact Optical Receiver FTTx Solution

AON1210C Series



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

AON1200C Series 1 or 2-port Optical Node 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 helps operators expand bandwidth of their existing HFC network while minimizing capital investment. The AON1210C compact node has smart LED, SNMP and Web GUI for convenient management and is suitable for MDU, FTTB or FTTC applications with high output up to 116 dBμV.

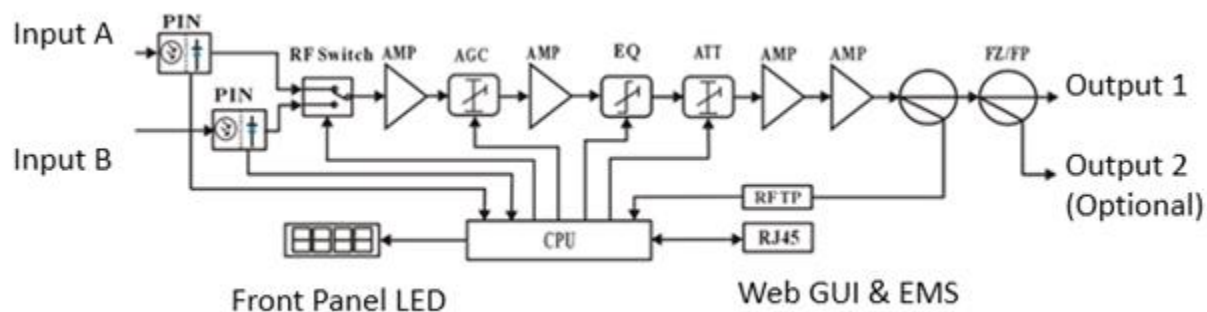
The AON1200C deep fiber node is equipment with optional Automatic Gain Control circuit to maintain constant output power with optical input from -9 to +2dBm. Combined with ACT's converged headend AH1000 optical platform, AON1200C series deep fiber optical node is an ideal product to provide MSOs with an economical, flexible HFC access solution.

AON1200C node provides the web management interface to support the remote monitoring capability in advanced network management system.

Key Features

- Utilizes advanced optical AGC technique, optical AGC control range: +2 dBm to -9/8/7 dBm adjustable
- Redundant two-way optical signal input, can automatically switch according to the pre-set switching threshold, or manually forced switch
- Forward working frequency extended to 1 GHz, RF amplifier part adopts the high-performance low power consumption GaAs chip, maximum output level up to 116 dBμV
- EQ and ATT both use the professional electric control circuit, make the control more accurate, operation more convenient
- Built-in Ethernet transponder, support remote network management (optional)
The optical output port and network management interface are external or internal (optional)

Block Diagram



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

Specifications

Item	Description
Optical Parameters	
Optical Receiving Power	-9 dBm to +2 dBm
Optical AGC Control Range	+2 dBm to -9/-8/-7 dBm (adjustable)
Optical Return Loss	>45 dB
Optical Receiving Wavelength	1100 nm to 1600 nm
Optical Connector Type	SC/APC or specified by the user
Fiber Type	Single mode
Link Performance	
C/N ¹	≥51 dB
C/CTB ¹	≥67 dB
C/CSO ¹	≥62 dB
RF Parameters	
Frequency Range	45 MHz to 862/1003 MHz
Flatness in Band	±0.75 dB
Rated Output Level	≥108 dBμV
Max Output Level	≥112 dBμV (-9 dBm to +2 dBm optical power receiving) ≥116 dBμV (-7 dBm to +2 dBm optical power receiving)
Output Return Loss	≥16 dB
Output Impedance	75 Ω
Electrical Control EQ Range	0 dB to 15 dB
Electrical Control ATT Range	0 dB to 15 dB
General Characteristics	
Power Voltage	A: 150 V _{AC} to 265 V _{AC} B: 35 V _{AC} to 90 V _{AC}
Operating Temperature	-40 °C to +60 °C
Consumption	≤14 VA
Dimensions (L×W×H)	220 mm × 205 mm × 65 mm

Note 1: EQ 8 dB, output level 108 dBμV (FZ110)

Ordering Information

Product Name	Product Description
AON1210C-0-00-AS-2-1	AON1210C 1 GHz two-way redundant optical receiver with Web GUI and SNMP

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

Specifications and product availability are subject to change without notice.
Copyright © 2018 Ascent Communication Technology Limited. All rights reserved.
Ver. ACT_AON1210C_Optical_Node_Datasheet_V1b_Jul_2018