

Compact 2-port Optical Node Deep Fibre Solution

AON2000 Series

- Deep Fibre Node with
2 High Outputs
- Compact Optical Receiver
- Suitable for MDU
Application
- 2x112dBuV
- AGC -6to +1dBm
- GaAs Technology
- Optional HMS Transponder
for EMS



AON2000 Series 2-port two way Optical Node is part of ACT Deep Fiber solution, which has been designed to deliver interactive CATV, high capacity DOCSIS and other advanced services. The cost effective node platform helps operators expand bandwidth of their existing HFC network while minimizing capital investment. The AON2000 compact node has IP67 rated housing and is suitable for MDU, FTTB or FTTC applications with two high outputs up to 112dBuV each.

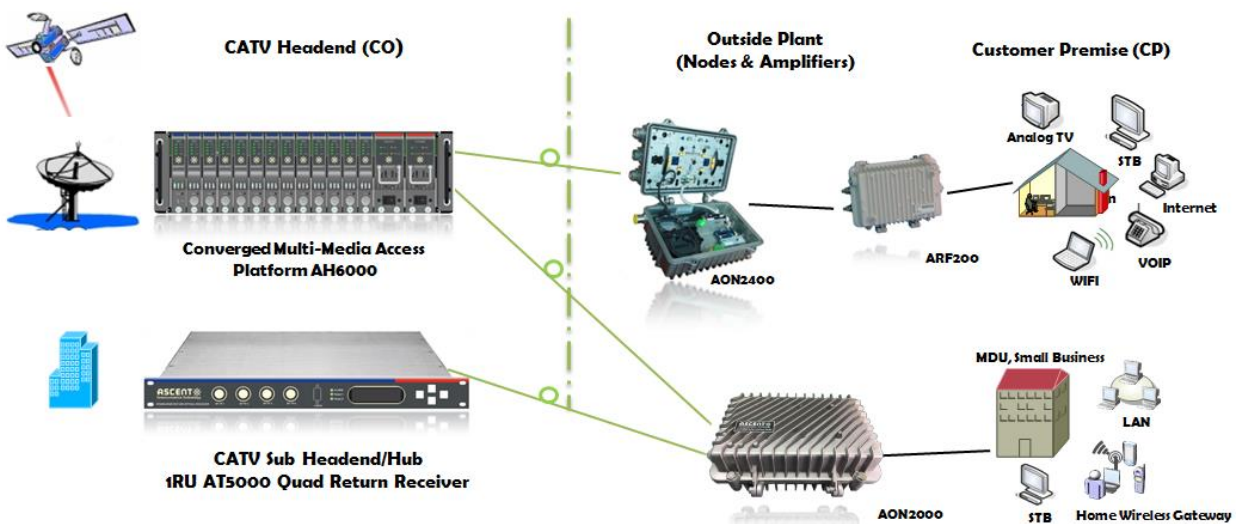
The AON2000 deep fiber node has the modular design and can be equipped with 1310, 1550 or CWDM return path transmitters. Combined with ACT's converged headend AH6000 optical system, AON2000 series deep fiber optical node is an ideal product to provide MSOs with an economical, flexible HFC access solution.

AON2000 node suits the last mile fiber deep access networks and also provides the optional standard HMS interface to support the remote monitoring capability in advanced network management system.

Key Features

- High performance 870MHz or 1GHz RF Spectrum
- Advanced GaAs RF hybrid technology for PAL, CENELEC and NTSC standards up to 110 analog channels
- Two high outputs up to 112dBuV each to eliminate last amplifier
- Field upgradeable duplexers and filters with plug-in PADs and EQs
- Designed with optional HMS transponder interface
- Wide operation temperature range -40~+65 degree C
- Compact housing and low power consumption
- 15AMP current passing capacity and 25 AMP surge survivability
- Sturdy die-cast housing is IP67 rated.
- High performance and cost effective deep fibre solution for FTTX, MDU, SMB applications

Application Diagram



Specifications

AON2000 Deep Fibre 2-Port Optical Node

Optical Specifications

Optical Wavelength	1290~1610nm
Optical Input Power	-7 to +2dBm
Optical Return Loss	50dB
Optical Connector	SC/APC
Optical AGC Range	-6 to +1dBm

RF Specifications

RF Bandwidth	47~862 or 1003MHz
RF Output Port	2
Output Level	112dBuV @ -6 to +1dBm
Gain Adjustment	0-24dB Pads
Slope Adjustment	0-20dB EQs
RF Flatness	+/-0.75 dB
RF Return Loss	>=14dB
RF Input Impedance	75 Ω
RF Test Point	-20 dB

Link Performance

CNR	51dB (77ch NTSC @ -1dBm receive)
CTB	-67dBc
CSO	-63dBc

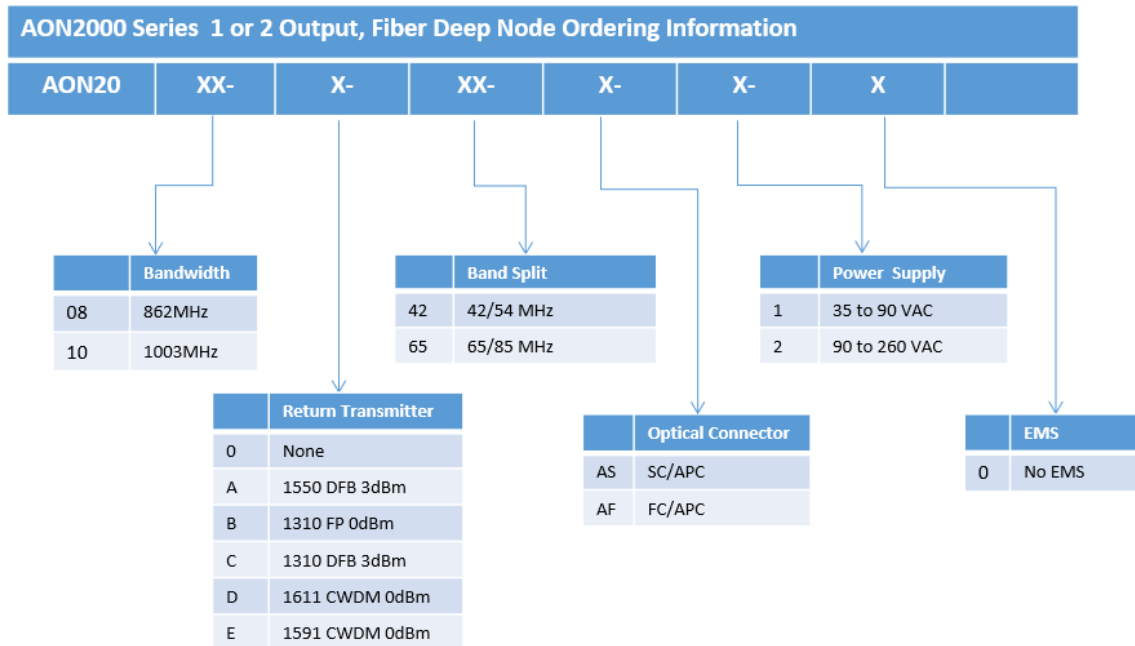
Upstream Specifications (Optional Transmitter)

Optical Wavelength	1310, 1550, CWDM
RF Bandwidth	5~42 MHz, 5~65 MHz
Output Power	3dBm (RF input > threshold)
RF Input Level threshold	15 to 25 dBmV
RF flatness	0.75 dB
RF return loss	16 dB Typical, 14 Min
Optical return loss	45dB

General Specifications

Operating Temp, °C	-40 to 65
Power Supply	30~70VAC line power or 70 to 260 VAC
Operating relative humidity, %	5 to 95 non condensing
Power Consumption W	15 (Receiver only)
Current Passing	10A
Dimensions (W x D x H)	240x115x195mm
Weight kg	3.0

Ordering Information



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