

Compact 1 or 2-port Optical Node Deep Fibre Solution

AON1200 Series

- Deep Fibre Node with 1 or 2High Outputs
- Compact Housing
- Suitable for MDU Application
- 1x112dBuV or 2x108dBuV
- AGC -6 to +1dBm
- GaAs Technology
- Optional HMS Transponder for EMS



AON1200 Series 1 or 2-port two way Optical Node is part of ACT Deep Fiber solution, which has been designed to deliver interactive CATV, high capacity DOCSIS Data and other advanced services. The cost effective node platform helps service providers expand bandwidth of their existing HFC network while minimizing capital investment. The AON1200 compact node has IP67 rated housing and is suitable for MDU, FTTB or FTTC applications with two high outputs up to 108dBuV each.

The AON1200 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 platform, AON1200 series deep fiber optical node is an ideal product to provide MSOs with an economical, flexible HFC access solution.

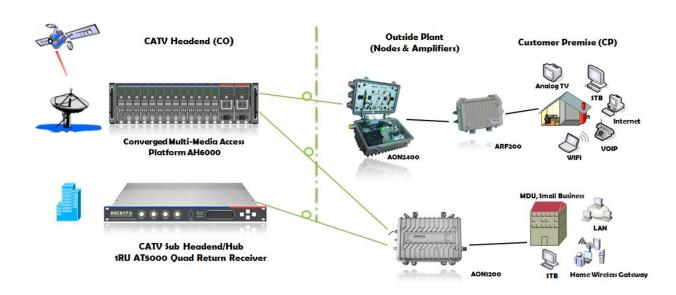
AON1200 node suits the last mile fiber deep access networks and also provides the optional standard HMS interface to support the remote monitoring capability in advanced network management system.



Key Features -

- High performance 862MHz 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 108dBuV each to eliminate last amplifier
- Field upgradeable diplexers and filters with plug-in PADs and EQs
- Designed with optional HMS transponder interface
- Wide operation temperature range -40 to +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 -

AON1200 Deep Fibre 2 Port Optical Node

Optical Specifications

Optical Wavelength 1290 to 1600nm
Optical Input Power -9 to +3dBm

Optical Return Loss 50dB

Optical Connector SC/APC

Optical AGC Range -6 to +1dBm

RF Specifications

RF Bandwidth 47 to 862 or 1003MHz

RF Output Port 1 or 2

Output Level 1x112 or 2x108dBuV @ -6 to +1dBm

Gain Adjustment 0-24dB Pads
Slope Adjustment 0-20dB EQs
RF Flatness +/-0.75 dB

RF Return Loss ≥16dB(47-550MHz), ≥14dB (550-1000MHz)

RF Input Impedance 75Ω RF Test Point -20 dB

Link Performance

CNR 50dB (79ch NTSC @ -4dBm receive, OMI 4%)
CSO -63dBc (8dB slope, 112dBuV@1003MHz, 79 NTSC)
CTB -67dBc (8dB slope, 112dBuV@1003MHz, 79 NTSC)

Upstream Specifications (Optional Transmitter)

Optical Wavelength 1310, 1550, CWDM

RF Bandwidth 5 to 42 MHz, 5 to 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 Temperature -40 °C to +65 °C

Power Supply 35 to 90VAC line power or 90 to 260 VAC local power

Operating Relative Humidity 5 % to 95 % (non-condensing)

Power Consumption 18 W (receiver only)

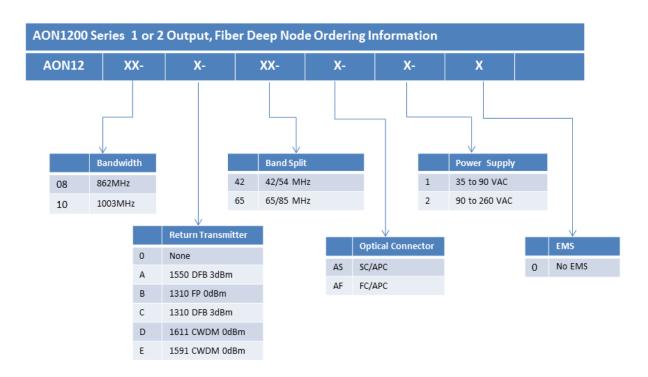
Current Passing 15 A

Dimensions (W \times D \times H) 242 mm \times 203 mm \times 117mm

Weight 1.5 kg



Ordering Information





Contact Information •





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