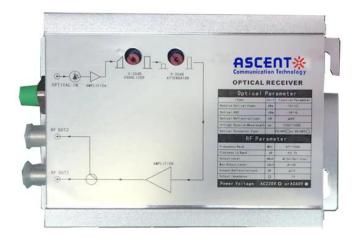


1.2GHz Compact Optical Receiver FTTx Solution

AON1100E Series



- 1.2 GHz forward working frequency
- Single optical signal input
- 110 dBµV output
- High-performance low power consumption
 GaAs module
- Optical AGC
- Adjustable EQ and ATT
- Compact housing

AON1100E Series Optical Receiver is part of ACT's Deep Fiber solution, which has been designed to deliver high-quality CATV and other advanced services in FTTB (fiber to the building) and FTTH (fiber to the home) application. This cost-effective compact mini receiver helps operators expand the bandwidth of their existing HFC network while minimizing capital investment. The AON1100E compact node has 1.2GHz bandwidth, adjustable EQ and ATT and optical input LED for convenient management and is suitable for MDU, FTTB or FTTC applications with high output up to 110 dBµV.

The AON1100C deep fiber node is equipment with Automatic Gain Control circuit to maintain constant output power with optical input from -10 dBm to 0 dBm. Combined with ACT's converged headend AH1000 optical platform, AON1100E series deep fiber optical node is an ideal product to provide MSOs with an economical, flexible HFC access solution.

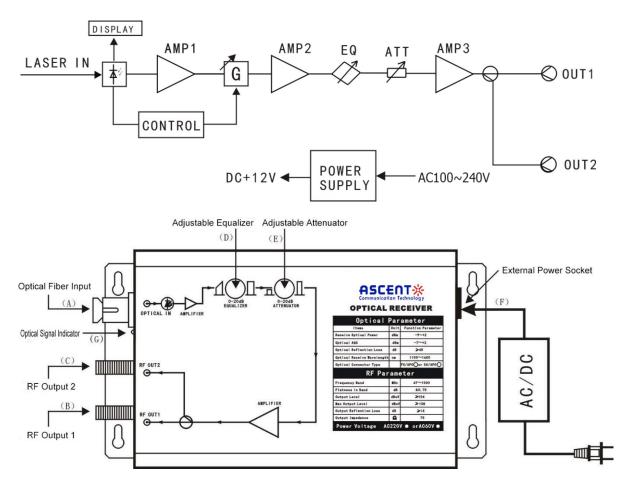
AON1100E node provides the split or tap output options with convenience in advanced network management system.



Key Features -

- Utilizes advanced optical AGC technique, optical AGC control range: -10 dBm to 0 dBm
- 1.2GHz bandwidth with single optical signal input
- RF amplifier part adopts the high-performance low power consumption GaAs chip, maximum output level up to 110 dBµV
- EQ and ATT both use the adjustable control circuit, operation more convenient
- Compact housing with two RF outputs
- Split or Tap output options

Block Diagram





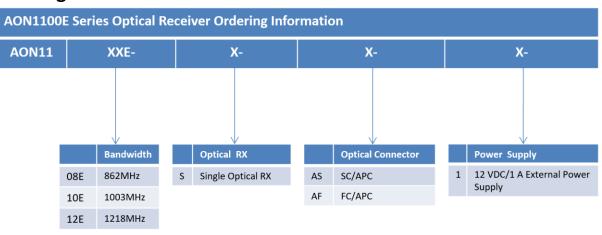
Specifications -

Technique Parameters

Item		Unit	Technical Parameters
Optical Index			
Optical Input Range		dBm	-12 to +2
AGC Setting Range		dBm	-10 to 0
Optical Return Loss		dB	>45
Operating Wavelength		nm	1100 to 1600
Fiber Connector			FC/APC, SC/APC, Specified by User
Fiber Type			SM
Link Index			
CNR		dB	≥51
СТВ		dB	≥65
CSO		dB	≥60
RF Index			
Operating Bandwidth		MHz	47 to 1218
Output Level		dB	±0.75
Standard Output level		dBµV	≥106(Splitter)
			≥110(Tap)
No. of Output Port			2 (FZ-210 or FP-214)
Return Loss		dB	≥16
Input Impedance		Ω	75
General Index			
Anti-Thunder Voltage(10/700uV)		KV	5
Power Supply	Output	VDC	12VDC/1A
	Input	VAC	100 to 240VAC
Operating Temp		°C	-40 to 60
Storage Temp		°C	-50 to 70
Operating Relative Humidity		%	Max 95%
Power Consumption		W	≤8
Dimension		mm	165(L)x 100(W) x 50(H)



Ordering Information



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