

MDU Amplifier 1 or 2 Output Deep Fiber HFC Solution



ARF100B Series

- Deep Fibre Architecture
- 1002MHz Bandwidth
- GaAs Multi-Chip Module
- I or 2 Output
- Up to 114dBuV
- Compact MDU Housing
- Suitable for Cabinet installation
- On board Adjustable ATT &
 EQ
- Local or Remote

ARF100B Series 1 or 2 RF outputs, GaAs two way MDU amplifier is part of ACT Advanced Fiber Deep HFC solution, which has been designed to deliver interactive CATV, high capacity DOCSIS and other advanced services. The cost effective MDU amplifier platform helps operators expand bandwidth of their existing HFC network while minimizing capital investment. The ARF100B compact housing has IP65 rated housing with embedded RF module and is suitable for MDU, FTTB or FTTC applications with high outputs up to 114dBuV.

The ARF100B 1GHz MDU amplifier has on board electronic controlled dial for attenuation and equalization adjustment without service interruption. Combined with ACT's converged headend AH6000 optical system and AON node series, ARF100B is an ideal product to provide MSOs with an economical, flexible HFC access solution.

ARF100B amplifier suits the last mile fiber deep access networks. It has low power consumption and supports local or remote power options.

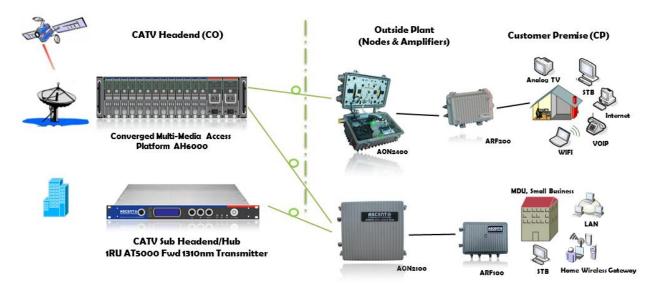
ARF100B MDU Amplifier



Key Features -

- High performance 862/1002MHz RF Spectrum for analog and digital video
- Economical design with embedded RF section in compact IP66 MDU housing
- High video quality for PAL, CENELEC and NTSC standards up to 110 analog channels
- RF output up to 114dBuV at 6dB slope
- Electronic controlled dial for attenuation and equalization adjustment without service interruption
- Field upgradeable diplexers and filters
- Compact housing and low power consumption
- Easy installation and maintenance
- Support local or remote powering options

Application Diagram



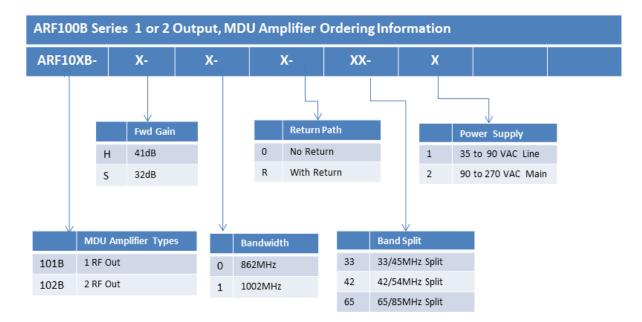


Specifications -

ARF100B Deep Fibre 1 Port MDU Amplifier

RF Specifications	
RF Forward Bandwidth	45 to 1002MHz
RF Return Bandwidth	5 to 42, 5 to 65MHz (Diplex Filter)
RF Output Port	1 (2 by internal splitter)
RF Gain Forward	41dB (High Gain Version), 32dB (Standard Gain Version)
RF Gain Return	24dB ±0.5, (Optional Passive Return)
Output Level	Standard 114dBuV @ 6dB
Gain Adjustment	0-15dB with 1dB step (forward and return)
Slope Adjustment	0-22dB with 1.5dB step (forward)
Interstage ATT	0/5 dB
Interstage EQ	0/3/6/9 dB
RF Flatness	±0.75 dB
RF Return Loss	16 dB (45 to 550MHz)
RF Input Impedance	75 Ω
RF Test Point (input&output)	-20 dB ±1
Link Performance	
Noise Figure	6dB (up to 600MHz), 8dB (up to 862MHz)
СТВ	-60dBc
CSO	-60dBc
Cross Modulation	65dB
General Specifications	
Operating Temp, °C	-20 to 55
Power Supply	27 to 65VAC line power or 180 to 265 VAC main power (50/60Hz)
Operating relative humidity, %	5 to 95 non condensing
Power Consumption W	18
Dimensions (W x D x H)	240x190x120mm
Weight kg	1.7

Ordering Information





Contact Information





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