

High Output 2-port Trunk/Line Amplifier

ARF230 Series



- Deep Fibre Architecture
- 2 High Outputs (Up to 112dBuV each)
- Compact Housing
- Suitable for MDU installation
- GaAs Technology
- 15 AMP Power Passing
- IP67 Housing
- Plug-in JXP Pads

ARF230 Series 2-port two way Trunk/Line Amplifier is part of ACT Advanced 1GHz HFC solution, which has been designed to deliver interactive CATV, high capacity DOCSIS and other advanced services. The cost effective amplifier platform helps operators expand bandwidth of their existing HFC network while minimizing capital investment. The ARF230 compact Trunk/Line Amplifier has IP67 rated housing and is suitable for MDU, FTTB or FTTC applications with two high outputs up to 110dBuV each.

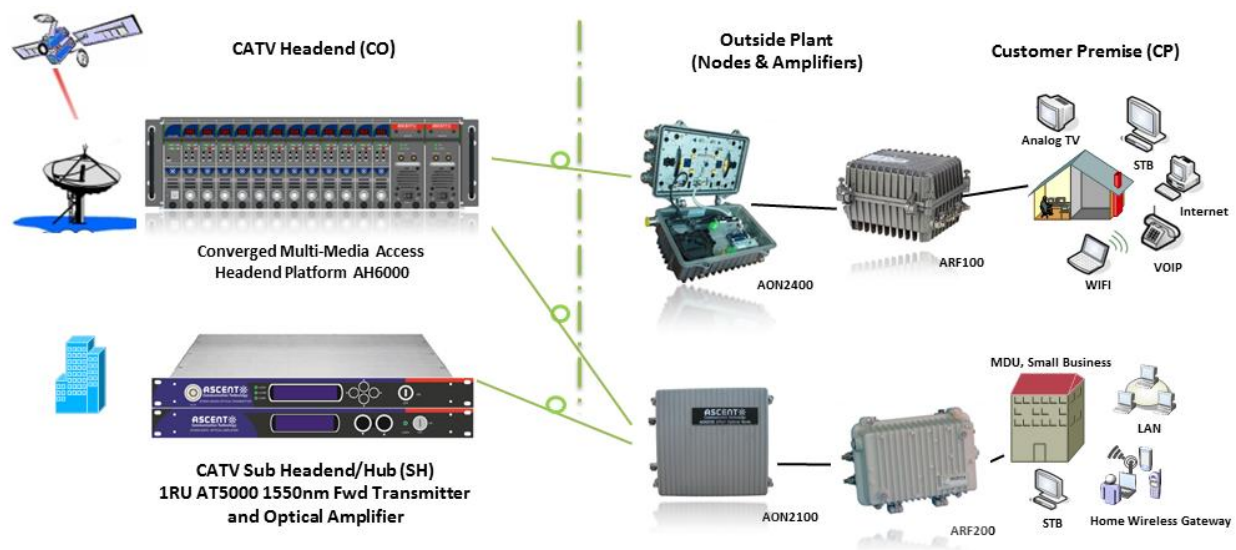
The ARF230 1GHz Trunk/Line Amplifier has the modular design with removable RF module, plug-in diplex filter, and accessories (Pads and Eqs). Combined with ACT's converged headend AH6000 optical system and AON node series, ARF230 series is an ideal product platform to provide MSOs with an economical, flexible HFC access solution.

ARF230 Trunk/Line Amplifier suits the last mile fiber deep access networks and offers high output power with flexibility to be put in either trunk amplifier or line extender location.

Key Features

- High performance 1GHz RF Spectrum for both analog and digital video
- 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 diplexers and filters with plug-in JXP PADs and EQs
- Wide operation temperature range -40 to +65 degree C
- Compact housing with grounding point and low power consumption
- 15AMP current passing capacity and 25 AMP surge survivability with fuse protection
- Sturdy die-cast housing is IP67 rated.

Application Diagram



Specifications

ARF200 Deep Fibre 1 or 2-Port Trunk/Line Amplifier

RF Specifications

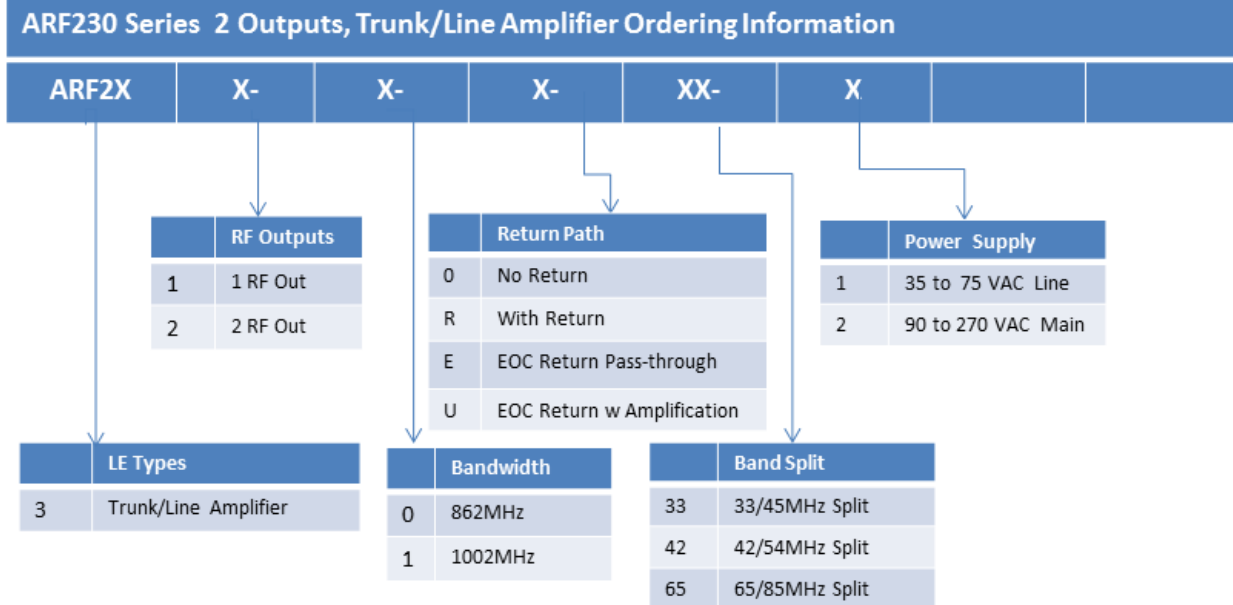
RF Forward Bandwidth	54 to 1002MHz
RF Return Bandwidth	5 to 42, 5 to 65MHz (Diplex Filter)
RF Output Port	2
RF Gain Forward	38dB
RF Gain Return	23dB
Output Level	112dBuV @ 862MHz, 100dBuV @ 87MHz
Gain Adjustment	0 to 24dB Pads
Slope Adjustment	0 to 20dB EQs
Frequency Response	±0.5 dB
RF Return Loss	>18dB @ 5 to 65MHz; >16dB@85MHz to 862MHz, -1.5dB/oct, > 12dB @1GHz
RF Input Impedance	75 Ω
Insertion loss	<6 dB when pass through return path
RF Test Point	-20 dB ±1

Link Performance

Noise Figure	Forward <8dB @ highest gain; Return <5dB
CTB	-70dBc
CSO	-67dBc
Carrier to HUM Modulation	65dB
Cross Modulation	60dB

General Specifications

Operating Temp, °C	-40 to 65
Power Supply	35 to 75VAC line power or 90 to 270 VAC
Operating relative humidity, %	5 to 95 non condensing
Power Consumption W	33 (full config)
Current Passing	15A, Surges and Transients: >6kA - 8/20 μs
Dimensions (W x D x H)	257x203x142mm
Weight kg	3.6



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Ver. ACT ARF230 LE DataSheet v1f Nov 2011