

ARRIS RF Amplifier

MDA-100*

1 GHz Multi-Dwelling Amplifier

FEATURES

- Enables high forward bandwidth up to 1003 MHz
- Supports return bandwidth with optional 85 MHz return
- Maximize installation locations with space-saving compact housing
- Simplify installation with elimination of RF accessories for alignment
- Flexible powering in MDU installations with included 100 to 240 VAC MAINS power supply



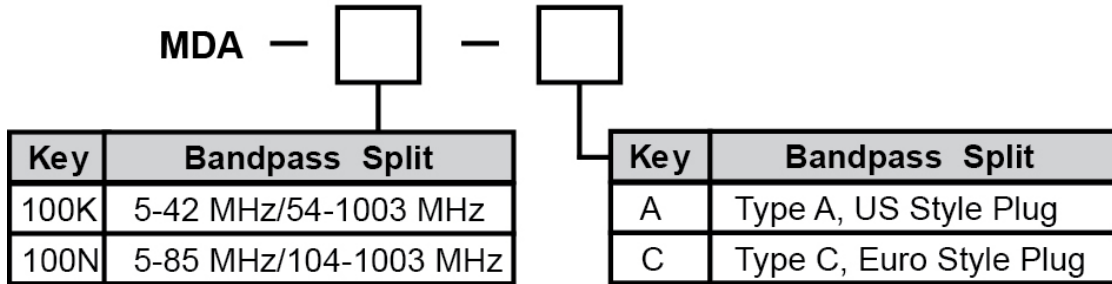
PRODUCT OVERVIEW

The ARRIS MDA-100 Multi-Dwelling Amplifier platform meets the needs of today's expanding broadband communication networks. Designed for HFC network installations in apartment buildings, condominiums, and other multiple-dwelling housing units, this high-gain, compact indoor distribution amplifier is available with a bandwidth of up to 1003 MHz for improved system performance. To save space, technicians can easily wall-mount the MDA-100 amplifier using the housing's external mounting brackets.

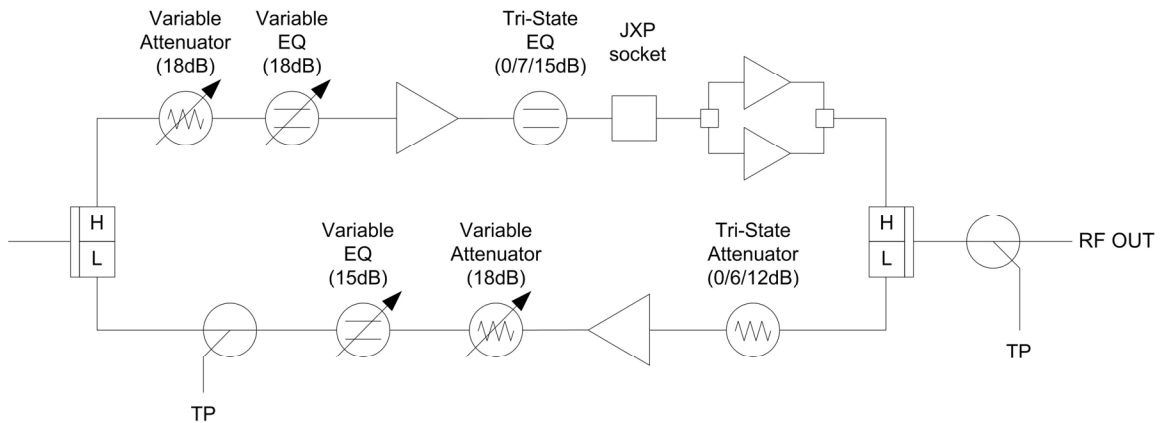
The single-output amplifier features variable attenuator and equalizer facilities for greater flexibility when adjusting the amplifier. The unit includes standard F-type input and output connector ports, as well as an active return path for use in today's advanced networks. The MDA-100 also features a return path, three-state attenuator to help minimize cable modem output levels. The mains-powered MDA-100 amplifier features a field-replaceable, auto-ranging switching power supply, which can accept input voltages from 100 to 240 V at frequencies of 50 or 60 Hz without adjustment.

SPECIFICATIONS		
	Forward	Return
Operational Bandwidth	54 to 1003 MHz	5 to 85 MHz
Bandwidth Splits	K (54 – 1003 MHz) N (104 – 1003 MHz)	K (5 – 42 MHz) N (5 – 85 MHz)
Typical Full Gain	37 dB	Gain: 27 dB
Noise Figure	8 dB	9 dB
Input Attenuator	0 ~ 18 dB	0 ~ 18 dB
Input Equalizer	0 ~ 18 dB	0 ~ 15 dB
Tri-State Mid-Stage EQ	0/7/15 dB	Tri-State Attenuator: 0/6/12 dB
Flatness	± 1.0	± 0.75
RF Output Return Loss	14 dB	14 dB
RF Output Test Points	20 ± 1.2 dB	20 ± 1.2 dB
RF Output Impedance	75 Ω	75 Ω
Reference Output Level Composite Triple Beat (CTB) Cross Slope Optimization (CSO)	48 dBmV* ≤ -66 dBc* ≤ -66 dBc*	*Note: NTSC 79 channels with QAM to 1 GHz, output level 48 dBmV (virtual) at 1 GHz, 15 dB tilt
Weight		<2 lb
Mounting		Wall
Connector		F-type Female
Water/Dust Ingress Rating		IP54
Power Consumption		15 W
Surge		(IEEE C62.41, 1.2/50us Combination Wave, ±6kV)
Operating Temperature Range		-20°C to +55°C
Supply voltage, MAINS powered		100 – 240 VAC, 50 ~ 60 Hz
RoHS Compliant		

1 GHz MDA Ordering Guide



Block Diagram



RELATED PRODUCTS

CHP Chassis	Optical Patch Cords
Power Supplies	Optical Passives
Control Module	Installation Services

Customer Care

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
- International: +1-678-473-5656

Note: Specifications are subject to change without notice.

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