

# **HDA SERIES**

### HEADEND DISTRIBUTION AMPLIFIER

The HDA Series of 19" rack mount headend distribution amplifiers are completely self-contained broadband devices, specifically designed for the distribution of digital and analog CATV signals in the frequency range from 47 to 860 MHz. It integrates the abilities of a passive combiner and a distribution amplifier into a single high performance unit. The state-of-the-art hybrid power doubling amplifier modules enable the unit to operate at high output levels while maintaining low distortion characteristics. Four combiner configurations of 16, 12, 8 and 4 ports are available. A -30 dB low-level back matched test port is externally accessible enabling easy in-service testing and adjustment. The chassis design affords excellent heat dissipation allowing operation at high ambient temperatures without sacrificing reliability. Custom with built-in standby power supply with automatic switching capabilities.



Refer to product instruction manual for additional specification measurements and notes.

#### **FEATURES**

- · Fully integrated digital and analog combiner and distribution amplifier
- Front panel accessible gain and slope controls
- · Combiner attenuator for adjustment control of digital signals
- State-of-the-art hybrid IC circuitry for high output with low distortion
- · Can be used as a combiner and amplifier, or amplifier and splitter

## **ORDERING INFORMATION**

Model	Stock #	Description
HDA-12-860-18	6240 12	Headend Distribution Amplifier 860 MHz 12 Port Equalized Combiner w/ 18 dB Total Gain
HDA-16-860-16	6240 16	Headend Distribution Amplifier 860 MHz 16 Port Equalized Combiner w/ 16 dB Total Gain
HDA-8-860-20	6240 8	Headend Distribution Amplifier 860 MHz 8 Port Equalized Combiner w/ 20 dB Total Gain
HDA-4-860-24	6240 4	Headend Distribution Amplifier 860 MHz 4 Port Equalized Combiner w/ 24 dB Total Gain

#### **INPUT**

Connectors:	"F" Female
Impedance:	75 Ω
Return Loss:	14 dB
Frequency Range:	47-860 MHz
Isolation:	30 dB (adj. input ports 1-4 or 5-8 or 9-12 or 13-16) 45 dB (alternate input ports 1-4 & 5-8 & 9-12 & 13-16)

## OUTPUT (COMMON TO ALL MODELS)

Connector: Impedance: Frequency: Flatness: Gain Control: Slope Control: Output Return Loss Noise Figure: Channel Loading Composite Triple Beat (CTB): Cross Modulation (XMOD): Composite 2nd Order (CSO): Hum Modulation:	+/- 1.0 dB 15 dB 10 dB 14 dB 7 dB 78 -68 dB -68 dB -65 dB
Model Dependent Specs Gain:	6240-16 = 17 dB; 6240-12 = 19 dB; 6240-8 = 22 dB; 6240-4 = 25 dB
Output Level:	6240-16: 40/46 dBmV 6240-12,-8, -4: 38/44 dBmV

#### **GENERAL**

Dimensions (W x D x H):	19" W x 1.75" H x 10.75" D (483 mm x 45 mm x 274 mm)
Power:	105-130 VAC 60 Hz
Power Dissipation:	23.5 W
Weight:	8 lbs (3.69 kg)
Operating Temperature:	32 to 122 °F (0 to 50 °C)
Storage Temperature:	-13 to 158 °F (-25 to 70 °C)
Operating Humidity:	0 to 95% RH @ 35 °C max, non-condensation
Storage Humidity:	0 to 95% RH @ 35 °C max, non-condensation

## ALARMS/MONITORING/CONTROL

Monitoring / Indicators: Main Power Supply: Stand-by Power Supply: In/Out Test Point:	LED
Controls Amplifier Gain: Amplifier Slope: Combiner Attenuator:	Potentiometer

# **RELATED PRODUCTS**

Model	Description	
AQT	8VSB/QAM-to-QAM Transcoder; Eight modules in 3RU	
AQM	ASI-to-QAM Modulator with sub-band input; Six modulators in 2RU	