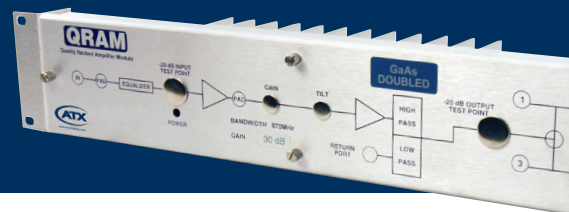


Q-SERIES® Amplifiers

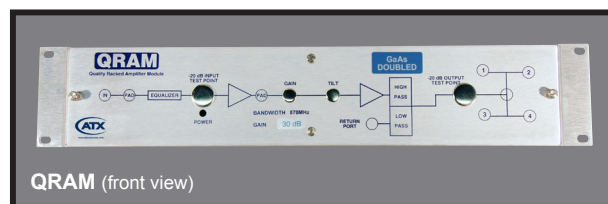
Headend Amplifiers



QRAM Forward & Return Headend Amplifiers:

Features:

- ▶ Forward 870 & 1000 MHz amplifiers in 2RU
 - ▶ Quadra-power & Gallium Arsenide (GaAs) RF output technology
 - ▶ Optional plug-ins available at output: 20 dB test point, 2-way or 4-way splitter or diplex filter
- ▶ QRAM 5-200 MHz return amplifier
 - ▶ 21-38 dB push-pull gain
 - ▶ Will accommodate CATV or local area return signals (5-30 MHz, 5-42 MHz, mid-split or high split)
 - ▶ Can also be used for the 40-50 MHz band for IF signal distribution with video/audio override systems
- ▶ Variable gain & tilt control
- ▶ Utilizes external 120 to 26 VAC Class II, 60 Hz UL power transformer (one included per QRAM)
- ▶ Additional DC powering ports (+24 VDC) provided for applications which require alternate or backup power



QRAM (front view)



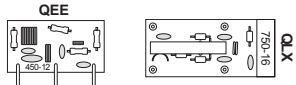

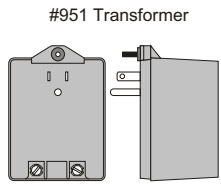
QRAM (rear view)

QRAM Specifications

SPECIFICATIONS	QRAM200	QRAM870	
BANDWIDTH	5-200 MHz	40-870 MHz	
FREQUENCY RESPONSE	± .25 dB	± .5 dB	
GAIN CONTROL RANGE	6 dB	6 dB	
SLOPE CONTROL RANGE	6 dB	6 dB	
RETURN LOSS	16 dB	14 dB	
TEST POINTS	-20 ± 1 dB	± 1.5 dB	
TYPICAL OUTPUT LEVELS	45 dBmV	38 dBmV	43 dBmV
TECHNOLOGY	Push-Pull	Quadra	GaAs
GAINS AVAILABLE (dB)	21, 31, 35, 38	23, 27, 31	30, 33
CHANNEL LOADING	4, (26)	128	132
DISTORTIONS			
CROSS MODULATION (-dB)	84, (68)	76	N/A
COMP. TR. BT. (-dB)	91, (75)	71	68
COMP. 2nd ORD. (-dB)	N/S	71	68
NOISE FIGURE (dB)	6.0	8.5	5.5
DC CURRENT @ 24 VDC (Amps)	0.44	1.10	0.88
POWER DISSIPATION (Watts) ⁽¹⁾	20	44	35
OPERATING TEMPERATURE	0°C to +50°C (+32°F to +122°F)		
HUMIDITY	20%-55% (without condensation)		
DIMENSIONS	3.5"H x 19.0"W x 3.4"D (8.89H x 48.26W x 8.64D cm)		
WEIGHT	8.0 lbs (3.63 kg)		
NOTE:			
(1) Power dissipation is measured at 120 VAC. Multiple gain models show minimum specifications, call for exact.			

QRAM Forward & Return Headend Amplifiers:

Ordering Information

Example Part Number:	
QRAM870-30 CGP	
<div style="display: flex; justify-content: space-around; width: 100px;"> 1 2 3 </div>	
1. Bandwidth: 200 = 200 MHz 870 = 870 MHz 1000 = 1 GHz	
2: Gain: See Specifications table.	
3: Output Technology: Blank = Push-Pull P = Power-Doubled Q = Quadra-Power GP = Gallium Arsenide (GaAs)	
Part Number	Description
Options & Spares	
QRAM870-2S ⁽¹⁾	2-way Splitter, 870 MHz
QRAM870-4S ⁽¹⁾	4-way Splitter, 870 MHz
QRAM870-20TP ⁽¹⁾	-20 Test Point, Rear Output Port #3
QRAM870-40/54-DF	Diplex Filter, 5-40 MHz
QRAM870-62/85-DF	Diplex Filter, 5-62 MHz
QRAM1000-2S	2-way Splitter, 1000 MHz
QRAM1000-4S	4-way Splitter, 1000 MHz
QRAM1000-42/54-DF	Diplex Filter, 5-42 MHz
QRAM1000-65/85-DF	Diplex Filter, 5-65 MHz
QLX860- **	860 MHz EQs, ** = 0-24 dB in 2 dB steps
QLX750- **	750 MHz EQs, ** = 0-24 dB in 2 dB steps
QLX1000- **	1000 MHz EQs, ** = 1-22 dB in 1 dB steps
QEE200- **	200 MHz EQs, ** = 1.5-12 dB in 1.5 dB steps
	
SXP-TY- ** (tall)	Plug-in Pad, ** = 0-20 dB in 1 dB steps
SXP-YF- ** (flat top)	Plug-in Pad, ** = 0-20 dB in 1 dB steps
	
#951	120 Volts to 26 Volts, 60 Hz AC Power Transformer, 50 VA Rating (included)
	
NOTE:	
(1) Only ONE of these three options (QRAM870-2S, QRAM870-4S or QRAM870-20TP) may be used.	

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Specifications subject to change without notice.

