

QPAL - Drop-in Module Upgrade for Texscan and Jerrold / GI / Motorola

Features & Benefits:

- ▶ Drop-in module provides cost-effective & efficient bandwidth enhancements up to 1 GHz in any network equipped with Texscan / Jerrold / GI / Motorola line extenders
- ▶ Gain control options include manual gain control (MGC), thermal pad or automatic gain control (AGC)
- ▶ Interstage response circuit can be user defined in order to accommodate the specific amplifier station spacing in the network
- ▶ Plug-in diplex filters provide a future-proof solution in the event of new forward/return bandwidth splits
- ▶ 40-90 VAC high efficiency switching power supply combined with state-of-the-art gain technology allows upgrade to be accomplished without any change to the system powering architecture
- ▶ All plug-in accessories (pads, EQs, thermal pad, AGC circuitry) fully supported
- ▶ Power directors allow unit to pass power and/or to be powered from the input or output
- ▶ Equipped with 24V power LED indication as well as AC & 24V test points

Sample QPAL Specifications (Various Gains, 1 GHz, 14.5 dB Interstage EQ, 0 dB Pads)

FORWARD GAIN		GAIN AND SLOPE CONTROL		TEST POINTS		RETURN LOSS ⁽²⁾		DISTORTION PERFORMANCE ^(3,4)			NOISE FIGURE	OPERATING CURRENT ⁽⁵⁾	REVERSE GAIN	
BW	OPERATING GAIN ⁽¹⁾	PLUG-IN	I/O (dB)	I/O (dB)	OUTPUT LEVEL (dBmV)	CTB (-dB)	CSO (-dB)	(dB)	(mA)	BW (MHz)	OPERATING GAIN ⁽⁶⁾			
52 MHz - 1 GHz	29	INPUT / INTERSTAGE	20 +/- 1	15 / 14	45 / 30.5	81.6	77.7	5	950	5-42 or 5-65	20			
52 MHz - 1 GHz	32	INPUT / INTERSTAGE	20 +/- 1	15 / 14	45 / 30.5	81	77.2	5	950	5-42 or 5-65	20			
52 MHz - 1 GHz	36	INPUT / INTERSTAGE	20 +/- 1	15 / 14	45 / 30.5	81.4	77.5	5	950	5-42 or 5-65	20			
52 MHz - 1 GHz	38	INPUT / INTERSTAGE	20 +/- 1	15 / 14	45 / 30.5	81.6	77.7	5	950	5-42 or 5-65	20			

NOTES:

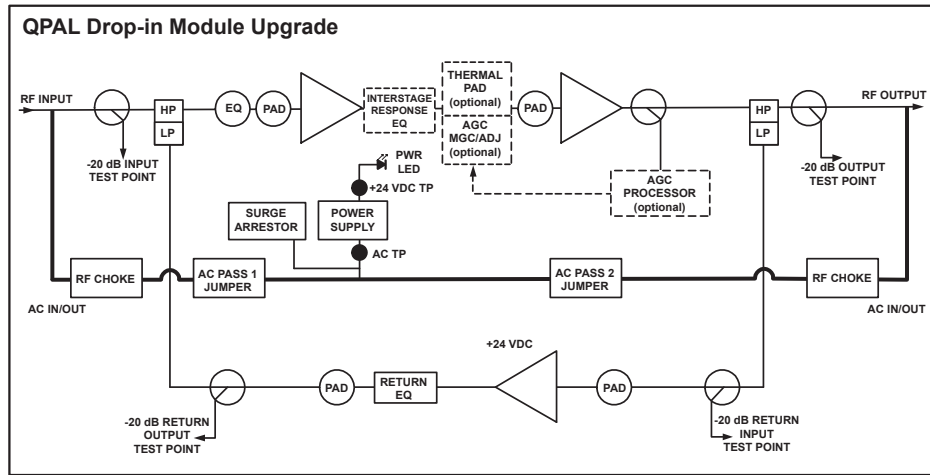
- (1) Operating Gain is specified with 0 dB pads and interstage EQ installed (14.5 dB slope).
 - (2) Return Loss is 14 dB minimum from 54 MHz to 1 GHz.
 - (3) Measured with 54 MHz - 1 GHz analog CW (6 MHz spacing) and 550 MHz - 1 GHz noise at -6 dBc (average power per 6 MHz).
 - (4) Specified with 0 dB plug-in pads and 0 dB input EQ. Interstage EQ with 14.5 output slope is installed.
 - (5) DC load current at +24 VDC.
- The reverse amplifier is a PP hybrid module. Current has been calculated into the total above.
- (6) Operating Gain is specified with 0 dB pads.
- Operating temperature: -40°C to +60°C (-40°F to +140°F)
 Humidity: 20%-55% (without condensation, inside housing)
 Dimensions: 5.04"H x 9.06"W x 3.35"D (12.8H x 23.0W x 8.5D cm)
 Weight: 2.7 lbs (1.22 kg)

Ordering Information

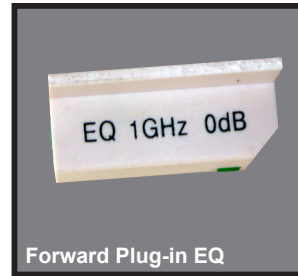
Part Number	Description
QPAL	Call ATX for Quote

QPAL - Drop-in Module Upgrade for Texscan and Jerrold / GI / Motorola:

Functional Schematic



Accessories:



Ordering Information

Part Number	Description
IPB-xx	Plug-in Attenuator: xx = 0-20 dB in increments of 2 dB
QAExxx-yy-y	Plug-in Forward Path EQ: xxx = 550, 750, 860, 930, 000 MHz; 000 = 1000 yy-y = 0-24 dB in increments of 1.5 dB
QEQDaxx-y-y	Plug-in Return Path EQ: xx = 42, 65 MHz y-y = 0-9.0 dB in increments of 1.5 dB

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Specifications subject to change without notice.