



Model Number: 2532-B7

RF Engineering
and Custom Build

4 channel Redundant L-band Line Amplifier

With variable gain



Front View of Model 2532-B7

This line amplifier shelf contains 4 pairs of ETL L-band amplifiers, with continuous current monitoring of all amplifiers. The shelf can be run in Manual and Auto mode. In Auto mode, it will automatically switch to the stand-by amplifier for a specific channel if the main amplifier fails.

Manual switching between amplifiers is available from the front panel.

The gain is adjustable independently for each channel via DIL switches on the inside of the shelf. LED's on the front panel show the amplifier status for each channel and PSU status. There is a dry contact alarm port for PSU failure and a summary alarm for amplifier failure.



Rear View of Model 2532-B7

This unit has 75 ohm BNC connectors, but other impedances and connector types are available (model numbers will vary).





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Technical specifications and operating parameters

RF Parameters	
Capacity	4 –channel (with 1:1 redundancy)
Frequency Range	950-2150 MHz (L-band)
Maximum Gain	25 dB
Gain Control Range	30 dB \pm 2 dB
Gain Control Step Size	1 dB
Gain vs. Frequency	$\leq \pm 2.0$ dB typical
1dB Compression	+ 15 dBm output power at max gain setting
IP2	≥ 30 dBm
IP3	≥ 25 dBm
Noise Figure	6 dB at max gain setting and
Amp Redundancy	1-to-1 auto switchover from main to standby is based on current sensing
Input Return Loss	10 dB typical
Output Return Loss	10 dB typical

System Control	
Display	Front panel LEDs for Power and PSU status
Local Control	Front panel push buttons for Amplifier current monitoring –
Alarms	Alarm Port on rear panel for PSU failure & summary amplifier
Operational Modes	Manual or Auto select Auto – automatically switch to standby amplifier if main amplifier fails Manual – switching between amplifiers is available from front panel

Power	
AC Power	90-264V AC (50/60Hz)
LNB Power	None
PSU	Dual
Hot-swap PSU	No

Physical	
Connectors	BNC
Impedance	75 Ω
Dimensions	2U high x 450mm deep x 19" wide
Colour	White 00-E-55 semi-gloss

Environmental	
Operating temperature	0 to 45°C
Location	Indoor use only
Storage temperature	-20°C to +75°C
Humidity	85% non-condensing

Key Features	
Dual Redundant Power Supplies	
Manual or Auto switchover	
Variable Gain	

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