



Model Number: 2531-B7B7

RF Engineering  
and Custom Build

# 16 channel L-band Line Amplifier

with fixed gain, switchable LNB Powering & hot-swap amplifier modules



This line amplifier shelf contains 16 L-band amplifier hot swap modules, and can also provide LNB biasing via the RF IN port. The amplifier modules can be easily changed-out while the shelf is in service, making it ideal for many larger ground station applications.

Front View of Model 2531-B7B7

The amplifiers provide 14 dB gain and 4 dB positive slope compensation (but the shelf can also be supplied with different gain and slope compensation).

The unit has DIL switches on the rear which allow LNB power to be switched on or off individually and LED's indicate the LNB power status.



Rear View of Model 2531-B7B7

ETL has a broad range of line amplifiers, some with variable gain and also with redundancy switching or back-up amplifier modules. 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	16 channel
Frequency Range	950-1750 MHz (L-band)
Gain	14 dB $\pm$ 1 dB at centre
Gain Variation / Frequency Slope	+ 4 dB
Noise Figure	8 dB
1 dB compression	5 dBm
Input Return Loss	10 dB typical
Output Return Loss	10 dB typical

Physical	
Input Connector	BNC
Input Impedance	75 $\Omega$
Output Connector	BNC
Output Impedance	75 $\Omega$
Dimensions	2U high x 350mm deep x 19" wide
Colour	White 00-E-55 semi-gloss

System Control	
Display	Front panel LEDs for Power and PSU status
Local control	Switchable LNB Powering via DIL switch on rear panel
Alarms	Dry Contact Alarm Port on rear panel for PSU failure

Power	
AC Power	90-264V AC (50/60Hz)
LNB Power	18V DC, 500mA standard
PSU	Dual
Hot-swap PSU	No

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

Key Features	
Hot-swap amplifier modules	
Dual Redundant Power Supplies	
Dry contact alarm port for PSU failure	
DIL Switch allowing LNB power to be switched on and off individually	

ETL SYSTEMS LIMITED  
Coldwell Radio Station  
Madley  
Hereford  
England HR2 9NE

TELEPHONE  
+44 (0)1981 259020  
  
EMAIL  
info@etlsystems.com

FACSIMILE  
+44 (0)1981 259021  
  
WEB  
www.etlsystems.com

