



Model Number: 2026

RF Engineering
and Custom Build

4 Channel LNB Service Shelf

Each with 2-way Distribution Amplifiers & Signal Monitoring



Front View of Model 2026

This specialist LNB Service Shelf is designed to provide LNB power to 4 satellite feeds, whilst also offering up to 35dB gain across the L-band frequency range. Each output is fed in to 2-way active splitters.

This model also offers loop through ports to connect to redundancy switches, and also allows alarm monitoring of the dual redundant power supplies and status of the amplifiers.



Rear View of Model 2026

The front panel provides a visual status of the LNB feed, power supplies and amplifiers. In addition, a -20dB Monitoring Port is available for carrier monitoring.





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Technical specifications and operating parameters

RF Parameters			
COUPLER PATH			
This is the RF Coupler with a 20 dB coupled port for monitoring & a thru port for the RF loop			
Input	50Ω N-type connectors LNB DC Power out, rear panel		
Output: Thru Port (loop)	50Ω SMA connectors DC blocked, rear panel, labelled "loop out"		
Output: Monitor Port	50Ω BNC connectors DC blocked, front panel		
Frequency	850-2150 MHz (L-band)		
Insertion Loss (20dB coupled monitor port)	Thru Port	1 ± 0.75 dB	
	Monitor Port	10 dB typical	
Return Loss	Thru Port	> 15 dB typical	
	LNB Power	18V nominal, 500mA max per channel, switchable. On RF input port only	
LNB Power	18V nominal, 500mA max per channel, switchable. On RF input port only		
AMPLIFIER PATH			
This path consists of 3 components. Amp-1, Amp-2 and 3dB coupler. Gain at 950MHz is typically 7 & 14dB in the 1 st & 2 nd amps respectively, & the gain at 2150MHz is typically 18 & 22dB in the 1 st & 2 nd amps respectively			
Input	50Ω SMA connectors Rear panel, labelled "loop in"		
Output-A	50Ω N-type connectors DC Blocked		
Output-B	50Ω N-type connectors DC Blocked		
Frequency	950-2150 MHz (L-band)		
Gain	At 950MHz	25 dB ± 4 dB	Typically 14 dB ± 2 dB positive slope
	At 2150MHz	35 dB ± 4 dB	
1 dB Gain Compression	0 dBm, output power		
Noise Figure	8 dB typical		
Input Return Loss	> 10 dB typical		
Output Return Loss	> 15 dB typical		

Power	
AC Power	85-264Vac 50/60Hz
PSU	Dual
Hot-swap PSU	No

System Control	
Display	Front Panel LED's for monitoring PSU's & LNB & Amp channels
Local Control	Switchable LNB Powering from rear panel
	Analogue meters for Voltage and Current measurement on front panel
Monitor Port	-20 dB Monitoring Ports on front panel
Alarms	Dry contact alarm port on rear

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

Physical	
Dimensions	4U high x 450mm deep x 19" wide
Weight	11 kg
Colour	White 00-E-55 semi-gloss

Key Features	
Dual redundant power supplies	
Positive Slope Compensation	
Switchable LNB Powering	
Front Panel Monitoring	

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