



Model Number: 2782-xxxx

RF Engineering
and Custom Build

4 port LNB Power Supply

With bias tee DC injectors, switchable 13/18V & 22KHz tone, current monitoring and local & remote control



Front View of Model 2782-xxxx

This ETL LNB hot swap power supply unit provides DC power for up to 4 LNBs via 4 bias tee DC injectors on the rear of the unit. This can be switched between 13/18V and 22KHz tone on/off, both locally via push buttons on the front panel and remotely via a serial or Ethernet port. The Ethernet port has the facility for communications via TCP/IP, SNMP and a web browser interface.

LNB status is indicated by LED's on the front panel. LNB current monitoring can also be done via the serial and Ethernet port provided on the rear panel.



Rear View of Model 2782-N5N5 (supplied with N-type connectors)

The unit also benefits from dual redundant hot-swap power supplies, which can be removed from the rear panel. Each power supply has an individual visual status LED on the front and rear panel; and can also be monitored via a dry contact alarm port.

This unit is available in a variety of impedances and connector types (model numbers will vary).





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4 port DC Inject LNB Power Supply with bias tee DC injectors,
switchable 13/18V & 22KHz tone, current monitoring and local
& remote control

Technical specifications and operating parameters

RF Parameters						
Capacity	4 port DC Inject Modules					
Frequency Range	850-2150MHz (L-band)					
Insertion Loss	<1 dB		Typical, mean across band			
	50 Ω SMA	50 Ω N-Type	50 Ω BNC	75 Ω BNC	75 Ω F-Type	
Return Loss	Typical	18 dB	18 dB	15 dB	10 dB	9 dB
	Minimum	14 dB	14 dB	10 dB	7 dB	7 dB
Tone Injection	22KHz nominal		Switchable On/Off			
LNB Power	13/18V nominal		500mA, fused (polyfuse) & monitored nominal per channel. Note. 25W total available from all channels.			

Physical		
Input Connector	BNC, F-type, N-type SMA	LNB Powering
Input Impedance	50Ω or 75Ω	
Output Connector	BNC, F-type, N-type SMA	DC Blocked
Output Impedance	50Ω or 75Ω	
Dimensions	2U high x 350mm deep x 19" wide	
Weight	4.1 kgs	
Colour	RAL9003 - White (Semi-Matte)	

Power		
AC Power	85-264Vac 50/60Hz AC	Fused at 2A
AC Consumption	0.8 A	Max. consumption at steady state.
PSU	Dual redundant	Diode OR
Hot-swap PSU	Yes	

System Control		
Display	Front Panel LED's for Power, PSU & LNB status	
Alarms	Dry contact (D-type) for low/high LNB current & PSU failure	
Remote Control & Monitoring	Via Serial (RS232/422/485) & Ethernet (RJ45) Ports	Enables selection of voltage & also monitoring of LNB current and alarm status
Local Control	Via front panel push buttons to select 13/18V & 22KHz Tone	

Key Features	
Provides DC power via 4 DC injectors	
Switchable 13/18V LNB Powering & 22KHz Tone independently settable for each port	
Local & Remote Control	
Dual redundant power supplies	

Environmental	
Operating temperature	0 to 45°C
Location	Indoor use only
Storage temperature	-20°C to +75°C
Humidity	20 to 90 % non-condensing

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