ETL Systems

Excelling in RF Engineering

Model Number: 2764-XXXX-E

16 port LNB Power Supply

with switchable 13/18V & 22KHz tone & current monitoring (via RJ45 Ethernet Port)

Typical applications:

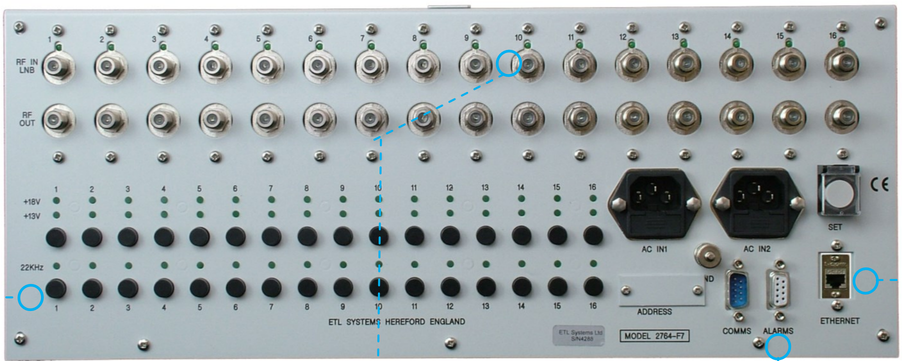
- Large satellite teleports with multiple dishes.
- Satellite dishes with single, dual or quad LNBs fitted.
- Monitoring within an M & C system

850 - 2150 MHz operating frequency range

LNB Powering 13/18V & 22 kHz tone

Compact housed in a 4U high chassis

Resilience from dual redundant, hot-swap power supplies



Remote control & monitoring via RJ45 Ethernet port

Local control to switch between 13/18V & 22 KHz tone

Status LEDs for each port

Dry contact alarm port for PSU failure

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Technical specifications and operating parameters

RF Parameters						
Capacity		16 port				
Frequency Range		850-2150 MHz (L-band)				
RF Connectors		50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Insertion Loss		<1 dB	<1 dB	<1.25 dB	<1 dB	<2 dB
Flatness	Full band	±0.5 dB	±0.5 dB	±0.5 dB	±0.6 dB	±1.0 dB
Return Loss	Typ.	15 dB	15 dB	14 dB	12 dB	10 dB
Input RF Power		20 dBm		Absolute maximum		

PRELIMINARY SPECIFICATIONS

System Control		
Local Control	Via push buttons on rear panel to switch between 13/18V & 22KHz tone	
Remote Control & Monitoring	Ethernet (RJ45) on Rear Panel	Enables voltage/tone selection and current monitoring of each LNB module, and Alarms status
Alarms	Dry Contact (D-Type) & Ethernet (RJ45) 16x LEDs on front panel (each module status)	PSU and module Status

Power		
AC consumption	148W	Max. consumption at steady state
LNB Power	13/18Vdc nominal, <0.5A per channel	Controllable from rear panel or remote connection. Note. Total DC power available to all 16 channels with full PSU redundancy is 125W.
PSU Power	85-132Vac / 170-264Vac 50-60Hz	Dual IEC C14 inlet, Fused 3.15A
PSU Redundancy	Dual Redundant and Alarmed	Diode OR. and hot swappable
Hot-swap PSU	Yes	

Environmental	
Operating temperature	0 to 45˚C
Location	Indoor use only
Storage temperature	-20˚C to +75˚C
Humidity	20 to 90% non-condensing
Altitude	10,000 feet AMSL

Physical	
Weight	12 kg
Dimensions	4U high x 350mm deep x 19" wide
Colour	White 00-E-55 semi-gloss (Front panel)

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.
Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.

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