

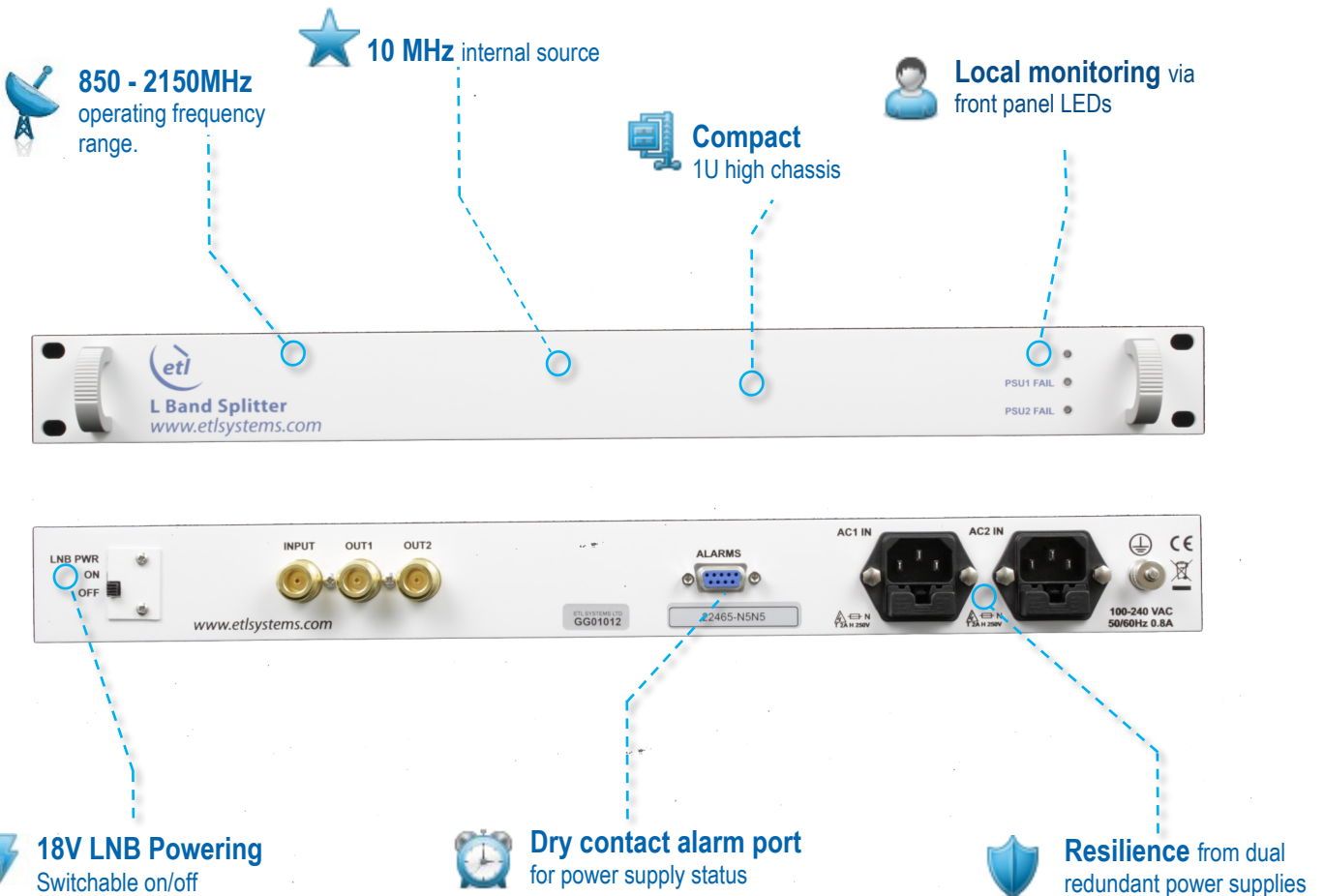


2 Way Active Splitter with LNB Powering and 10MHz Source

ETL's 22465 is a 2-Way Active Splitter shelf with an internal 10MHz source. The unit is designed for use in signal distribution systems in the L-Band range 850-2150MHz, featuring nominal 1dB gain and switchable LNB power.

Typical applications:

- Satellite operators, VSAT, teleports & broadcasters.
- IPTV & DTH headend content distribution.
- High resilience RF distribution where optimum satellite signal quality is required.
- SNG & Outside Broadcast Trucks.





Technical specifications and operating parameters

RF Parameters							Control, Monitoring & Power		
Capacity	2-way Splitter						PSU Power	85-264Vac 50-60Hz	Fused 2A
Input & output ports	50Ω BNC, SMA, N-type. 75Ω F-type, BNC						PSU Redundancy	Dual redundant and alarmed	Diode OR, Not hot-swap. Dual IEC inlets
Frequency Range	850—2150MHz						Alarms	Dry contact, change-over via 9-way D-type. Available alarms are: PSU.	Rear Panel
Connector & impedances	50Ω SMA	50Ω N-type	50Ω BNC	75Ω BNC	75Ω F-type				
Gain	1±2.0		Mean across frequency band				AC Consumption	<30W	Maximum consumption at steady state
Gain Flatness (dB)	Full band	±1.00	±1.00	±1.00	±1.20	±1.25	LNB Power	18Vdc, 500mA max via common (RF in) port	
	Any 36MHz	±0.35	±0.35	±0.35	±0.50	±0.50	Display	LED display to indicate PSU status.	
Input Return Loss (dB)	Typ.	15	15	15	12	12			
	Min	10	10	10	9	8			
Output Return Loss (dB)	Typ.	18	18	18	12	12			
	Min	10	10	10	9	8			
L Band Output 1dB GCP	Typ.	+5 dBm							
	Min.	+3.6 dBm							
Group Delay Variation	Full band	2 ns maximum							
	Any 36MHz	1 ns maximum							
Isolation	Typ.	24dB	24dB	24dB	24dB	23dB			
	Min	20dB	20dB	20dB	20dB	19dB			
Noise Figure	7 dB								
Input RF Power	16dBm		Absolute maximum						

10MHz Source						
10MHz Reference Source	Internal (Injected onto common port)					
Frequency	10MHz (Factory setting is to ± 1ppm, ± 10Hz)					
Output Level	5 ± 2 dBm					
Output Type	Sine Wave					
Harmonic & Spuri Levels	2nd Harmonic Level:		3rd Harmonic Level:		All other spuri:	
	< -60 dBc (typically 70 dBc)		< -55 dBc (typically 60 dBc)		< -65 dBc	
Internal Reference	10 MHz Sine Wave OCXO					
Frequency Stability over temperature	± 5 x 10 ⁻⁹ (0 to +55°C)					
Reference Source Ageing	± 5 x 10 ⁻⁸ / year					
Reference Source Phase Noise	< -95 dBc/Hz @ 1Hz	< -125 dBc/Hz @ 10Hz	< -145 dBc/Hz @ 100Hz	< -150 dBc/Hz @ 1kHz	< -155 dBc/Hz @ 10kHz	
Warm up time	< 3 min at 25°C to within accuracy of < ± 2 x 10 ⁻⁸					

Environmental	
Operating Temperature	0 to 50°C
Location	Indoor use only
Storage Temperature	-20°C to +75°C
Humidity	85% non-condensing
Altitude	10,000 feet AMSL (above mean sea level)

Physical	
Dimensions	1U high x 350mm deep x 19" wide 19" rack mountable
Weight	3.1Kg Excluding packaging
Colour	RAL9003 White (semi-matte)

Note 1: Typical parameters are guide figures and measured data may deviate from the quoted figures. ETL endeavours to exceed the quoted typical parameters where practically possible.

Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage. For reliable long term operation do not exceed the parameters given in above.

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