

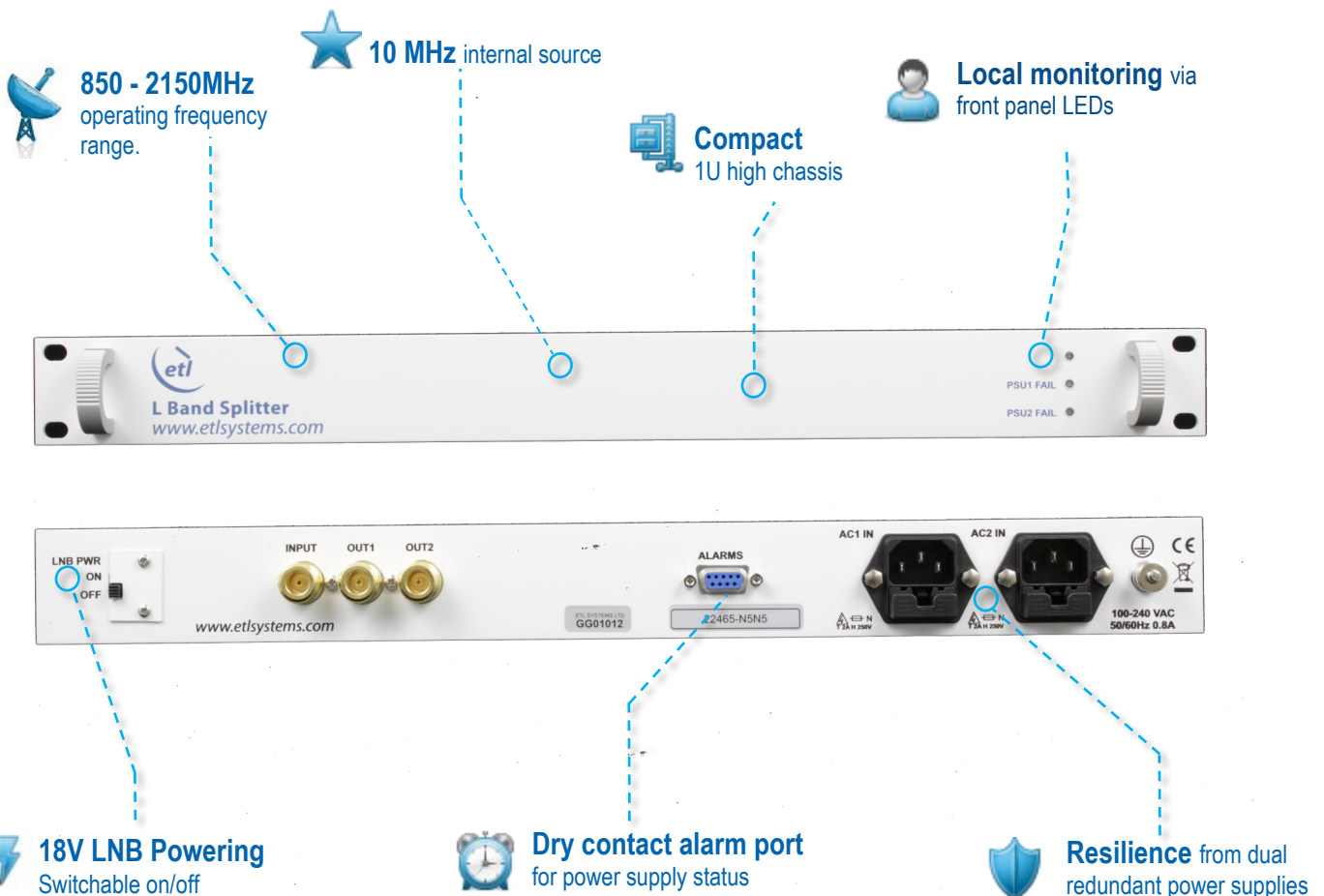


2 Way Active Splitter with LNB Powering and 10MHz Source

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						
Capacity		2-way Splitter				
Input & output ports		50Ω BNC, SMA, N-type. 75Ω F-type, BNC				
Frequency Range		850—2150MHz				
Connector & impedances		50Ω SMA	50Ω N-type	50Ω BNC	75Ω BNC	75Ω F-type
Gain		1±2.0		Mean across frequency band		
Gain Flatness (dB)	Full band	±1.00	±1.00	±1.00	±1.20	±1.25
	Any 36MHz	±0.35	±0.35	±0.35	±0.50	±0.50
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		

Control, Monitoring & Power			
PSU Power		85-264Vac 50-60Hz	Fused 2A
PSU Redundancy		Dual redundant and alarmed	Diode OR, Not hot-swap. Dual IEC inlets
Alarms		Dry contact, change-over via 9-way D-type. Available alarms are: PSU.	Rear Panel
AC Consumption		<30W	Maximum consumption at steady state
LNB Power		18Vdc, 500mA max via common (RF in) port	
Display		LED display to indicate PSU status.	

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: <- 60 dBc (typically 70 dBc)		3rd Harmonic Level: <- 55 dBc (typically 60 dBc)		All other spuri: <- 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.