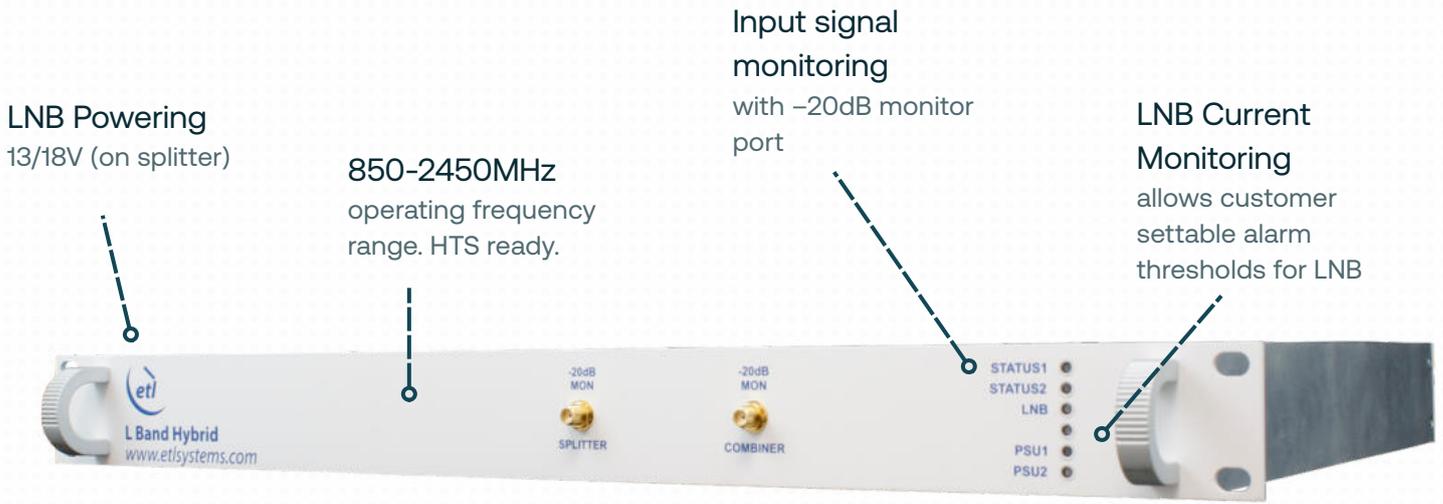


Hybrid 8-way L-band Active Single Dextra Series Splitter & Combiner

with dual redundant amplifiers (OPT-R version), switchable LNB powering on splitter & -20 dB monitor port



RF Parameters					
Capacity		8-way splitter and combiner			
Frequency Range		850-2450 MHz (Extended L-band)			
Connector & impedances		50Ω BNC	50Ω SMA	75Ω F-Type	75Ω BNC
Isolation 850-2250MHz	Typical	28dB	28dB	28dB	28dB
	Minimum	24dB	24dB	24dB	24dB
Isolation 2250-2450MHz	Typical	28dB	28dB	24dB	24dB
	Minimum	24dB	24dB	22dB	22dB
Gain Flatness	Full Band	±0.8 dB	±0.8 dB	±1.0 dB	±1.0 dB
	Any 36Mhz	±0.25 dB	±0.25 dB	±0.3 dB	±0.3 dB
Group Delay Variation	Full Band	2 ns Maximum			
	Any 36MHz	1 ns Maximum			
Amplification		Single path amplifier			
Amplifier Redundancy (Option OPT-R)		Dual redundant, selectable hot or cold standby, 1:1 redundancy with auto switch-over based on amplifier current monitoring			
Gain		0±1.0 dB mean across band			
Splitter					
Input Return Loss	Typical	20dB	20dB	20dB	20dB
	Minimum	16dB	16dB	16dB	16dB
Output Return Loss	Typical	21dB	21dB	21dB	21dB
	Minimum	16dB	16dB	16dB	16dB
Noise Figure dB (Typical)	50Ω	10dB			
	75Ω	12dB			
Output 1dB Compression		0dBm			
OIP3		+10 dBm			
OIP2		+30 dBm			
3rd Order intermodulation level		-40 dBc		With 2 equi-magnitude -13 dBm carriers. Total power -10 dBm.	
Input RF Power		16 dBm (Absolute maximum)			
In Band Spurious		<-80 dBm			

Combiner					
Input Return Loss	Typical	21dB	21dB	21dB	21dB
	Minimum	16dB	16dB	16dB	16dB
Output Return Loss	Typical	20dB	20dB	20dB	20dB
	Minimum	16dB	16dB	16dB	16dB
Noise Figure	50Ω	22dB			
	75Ω	24dB			
Output 1dB Compression		+10 dBm			
OIP3		+20 dBm			
OIP2		+30 dBm			
3rd Order intermodulation level		-40 dBc	With 2 equi-magnitude -13 dBm carriers. Total power -10 dBm.		
Input RF Power		16 dBm (Absolute maximum)			
In Band Spurious		< -80 dBm			
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			
Physical					
Weight		3.05Kg			
Dimensions		1U high x 350mm deep x 19" wide			
Colour		White 00-E-55 semi-gloss			
System Control					
Display		Front panel Tri colour LEDs to indicate PSU, LNB Power supply & amplifier status			
Remote Control & Monitoring		Via RJ45 Ethernet port with 10baseT/100baseTX Ethernet offering web browser access, SNMP and ETL proprietary TCP protocol (Redundant amplifiers, LNB current and power supplies monitored)			
Alarms		Dry contact change over via 9-way D-type. Alarm port on rear panel for PSU & LNB supply. Full status and alarms are also available via the Ethernet interface.			
Power					
AC Consumption		<35 W	At steady state with max rated LNB current supplied		
PSU Power		85-264Vac 50/60Hz. Fused 2A	Dual mains inlet		
LNB Power (RX) - Splitter Only		0/13V/18Vdc, 500mA max via common (RF in) port, over current protected at 800mA typical. 22kHz tone on/off enabled/disabled through comms. Monitored, alarms & status available through comms. Thresholds settable by user through comms.			
PSU Redundancy		Dual redundant with dual IEC inlets	Not hot swap		

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.