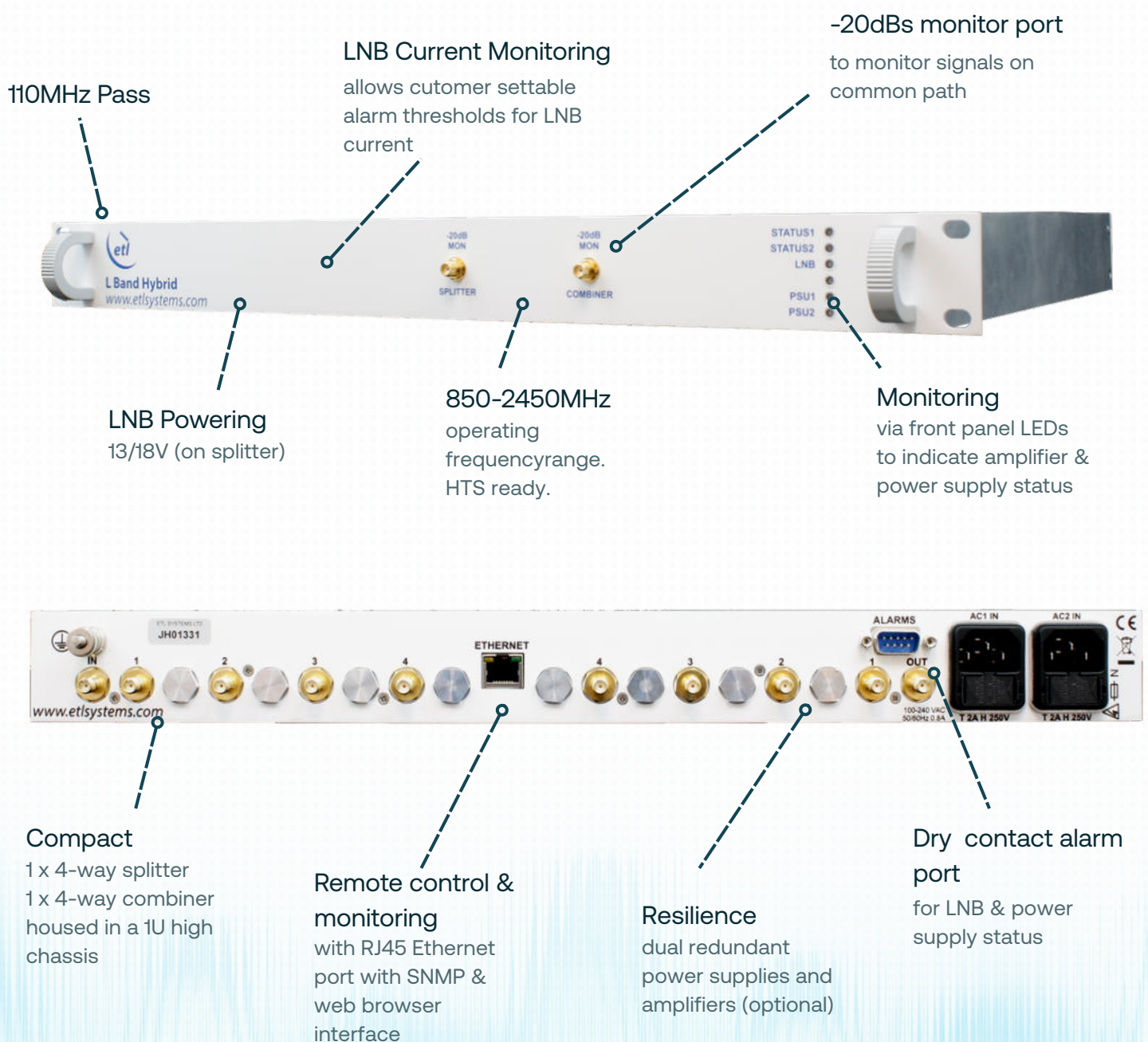


4-way Hybrid Splitter & Combiner L-band Active Dextra Series

with 10MHz pass, dual redundant amplifiers (OPT-R version), DC pass (OPT-D version), switchable LNB powering & -20 dB monitor port



RF Parameters					
Capacity		4 way Splitter & 4-way Combiner			
Front Panel Monitor		50Ω SMA		-20 dB, 16 dB return loss.	
Frequency Range		850 to 2450MHz			
Rf Connector & impedances		50Ω BNC	50Ω SMA	75Ω F-Type	75Ω BNC
Gain		0±1.0 dB mean across band			
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 (standard model)			
Options	OPT-R	Dual redundant amplifier. Selectable hot or cold standby, 1:1 redundancy with auto switch-over based on amplifier current monitoring.			
	OPT-D	DC pass port 1 to common port			
	OPT-RD	Dual redundant amplifier & DC pass port 1			
10MHz Pass		On ports 1 to Common Only (splitter & combiner)		Insertion Loss: <1.5 dB	
10MHz Rejection		>55 dB On ports 2 to 4			
Isolation (950-2150MHz) Minimum between any two multi ports	Typical	30dB	30dB	30dB	30dB
	Minimum	26dB	26dB	26dB	26dB
Splitter					
Input Return Loss	Typical	20dB	20dB	14dB	14dB
	Minimum	15dB	15dB	10dB	10dB
Output Return Loss	Typical	21dB	21dB	18dB	18dB
	Minimum	16dB	16dB	15dB	15dB
Noise Figure dB (Typical)		50Ω = 12dB		75Ω = 14dB	
Output 1dB Compression		0dBm			
OIP3		+10 dBm			
OIP2		+30 dBm			
Input RF Power		16 dBm (Absolute maximum)			
In Band Spurious		<-80 dBm Non-signal related			
Combiner					
Input Return Loss	Typical	21dB	21dB	18dB	18dB
	Minimum	16dB	16dB	15dB	15dB
Output Return Loss	Typical	20dB	20dB	14dB	14dB
	Minimum	16dB	16dB	10dB	10dB
Noise Figure	Typical	23dB			
Output 1dB GCP		+10dBm			

Combiner		
OIP3	+20 dBm	
OIP2	+30 dBm	
Input RF Power	16 dBm (Absolute maximum)	
In Band Spurious	Non-signal related < -80dBm	
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	RAL9003- White (Semi-Matte)	
System Control		
Display	Tri colour LEDs for PSU & amplifier status on front panel.	
Communication	RJ45 port with 10baseT/100baseTX Ethernet offering web browser access, SNMP & ETL proprietary TCP protocol.	
Alarms	Dry contact, change-over via 9-way D-type. Available alarms are: PSU supply. Full status & alarms are also available via the Ethernet interface.	
Power		
AC Consumption	<35 W	At steady state
PSU Power	85-264Vac 50/60Hz	Fused 2A
PSU Redundancy	Dual redundant with dual IEC inlets	Diode Or.Not hot swap
MTBF	>118,000 hours	
LNB Power	0/13/18Vdc, 500 mA max via common (RF in) port, over current protected at 800 mA typical. 22 kHz tone on/off enable/disable through comms. Threshold settable by user through comms.	Splitter only. Controlled by Ethernet splitter only

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.