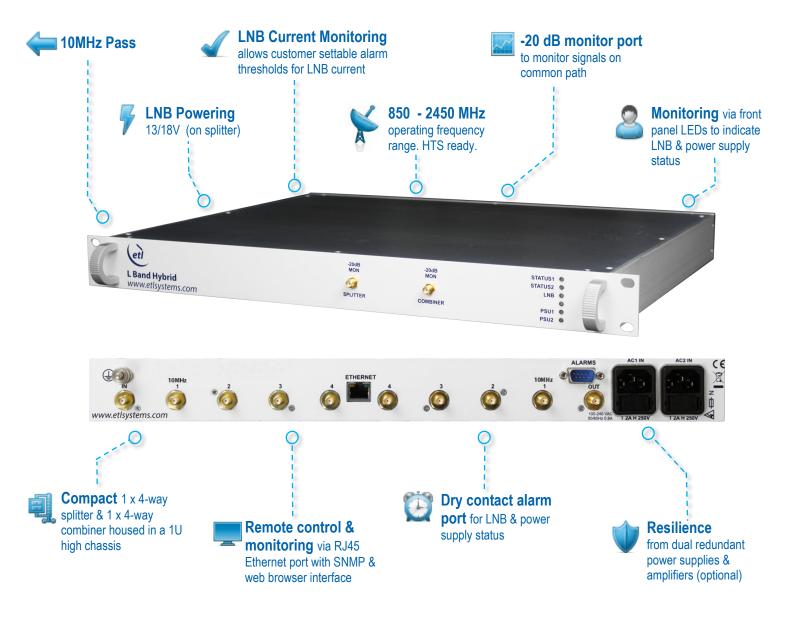


4-way Hybrid Splitter & Combiner L-band Active

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

Typical applications:

- Satellite operators, VSAT, teleports & broadcasters
- High resilience RF distribution, & optimum satellite signal quality
- 850-2450 MHz to cover Ka-band & HTS applications





Model Number: H0104D1ULA-22460-XXXX

Technical specifications and operating parameters

RF Parameters					
Capacity		4 way Splitter & 4-way Combiner			
Front Panel Monitor		50Ω SMA		-20 dB, 16 dB return loss.	
Frequency		850 to 2450MHz			
RF Connectors & 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)			
OPT-R		Dual redundant amplifier. Selectable hot or cold standby, 1:1 redundancy with auto switch-over based on amplifier current monitoring.			
Options	OPT-D	DC pass port 1 to common port			
	OPT-RD	Dual redundant amplifier & DC pass port 1			
10MHz Pass			Common Only	Insertion Lo	ss: <1.5 dB
10MHz Rejection		(splitter & combiner) >55 dB On ports 2 to 4			
Isolation	Typical	30 dB	30 dB	30 dB	30 dB
(850-2450MHz) Minimum between any two multi ports	Minimum	26 dB	26 dB	26 dB	26 dB
SPLITTER	'	ļ	ļ		ļ.
	Typical	20 dB	20 dB	14 dB	14 dB
Input Return Loss	Minimum	15 dB	15 dB	10 dB	10 dB
	Typical	21 dB	21 dB	18 dB	18 dB
Output Return Loss	Minimum	16 dB	16 dB	15 dB	15 dB
	50Ω	10 dB			
Noise Figure (typical)	75Ω	12 dB			
Output 1dB GCP	I.	0 dBm			
OIP3		+10 dBm			
OIP2		+30 dBm			
Input RF Power		16 dBm Absolute maximum			
In Band Spurious		< -80 dBm Non-Signal Related			
COMBINER					
	Typical	21 dB	21 dB	18 dB	18 dB
Input Return Loss	Minimum	16 dB	16 dB	15 dB	15 dB
	Typical	20 dB	20 dB	14 dB	14 dB
Output Return Loss	Minimum	16 dB	16 dB	10 dB	10 dB
Noise Figure (typical)		23 dB			
Output 1dB GCP		+10 dBm			
OIP3		+20 dBm			
OIP2		+30 dBm			
Input RF Power		16 dBm Absolute maximum			
In Band Spurious		< -80 dBm Non-Signal Related			

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

Power			
PSU Power	85-264Vac 50/60Hz	Fused 2A	
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	
PSU Redundancy	Dual redundant with dual IEC inlets	Diode OR. Not hot-swap	
AC Consumption	<35W	At a steady state. With max rated LNB current supplied.	
MTBF	118,000 hours		

System Monitoring Control & Alarms		
Display	Tri colour LEDs for PSU, LNB Supply & 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 & LNB supply. Full status & alarms are also available via the Ethernet interface.	

Physical		
Dimensions	1U high x 350mm deep x 19" wide	
Weight	3.05 kg	
Colour	RAL9003- White (Semi-Matte)	

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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