



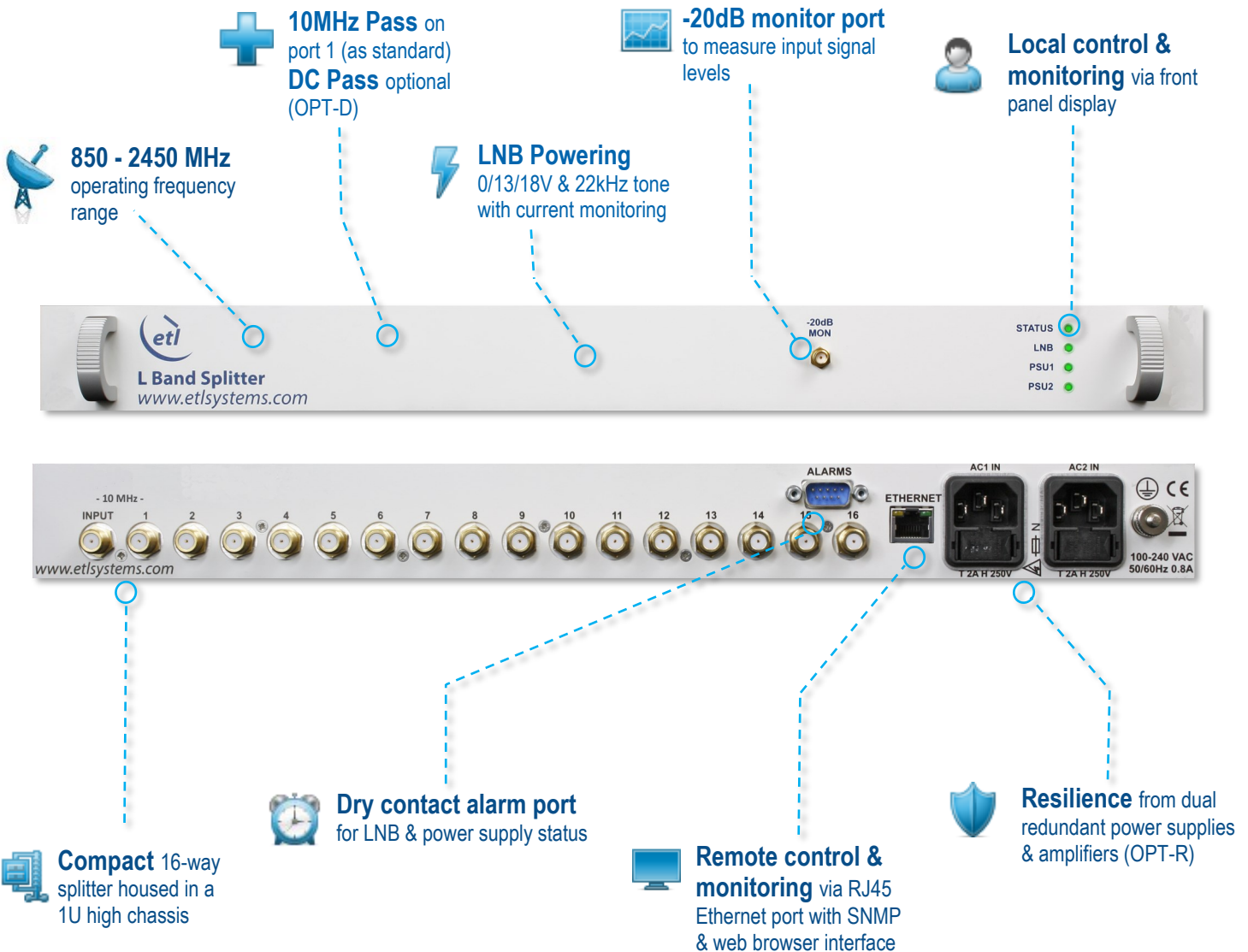
# ETL Systems

Excelling in RF Engineering

Model Number:  
D0116S1ULA-22454-XXXX

# 16-way Single Active Dextra Series L-band Splitter with 10 MHz pass to port 1, dual redundant amplifiers (OPT-R) & DC pass to port 1 (OPT-D)

- Typical applications:**
- Satellite operators, VSAT, teleports & broadcasters.
  - High resilience RF distribution where optimum satellite signal quality is required.
  - 850-2450MHz to cover Ka-band & HTS applications.
  - Redundancy applications for remote satellite teleports.





**Technical specifications and operating parameters**

RF Parameters						
Capacity	16 way Splitter					
Front Panel Monitor	50Ω SMA		-20dB, 16dB return loss			
Frequency Range	850-2450 MHz (Extended L-band)					
RF Connectors & Impedances	50Ω SMA	50Ω N-type	50Ω BNC	75Ω BNC	75Ω F-type	
Gain (dB)	0±1.0		Mean across band			
Flatness	Full Band	±0.8 dB	±0.8 dB	±0.8 dB	±1.0 dB	±1.0 dB
	Any 36MHz	±0.25 dB	±0.25 dB	±0.25 dB	±0.3 dB	±0.3 dB
Input Return Loss	Typical	20 dB	20 dB	20 dB	20 dB	20 dB
	Minimum	16 dB	16 dB	16 dB	16 dB	16 dB
Output Return Loss	Typical	21 dB	21 dB	21 dB	21 dB	21 dB
	Minimum	16 dB	16 dB	16 dB	16 dB	16 dB
Group Delay Variation	Full Band	2 ns maximum				
	Any 36MHz	1 ns maximum				
Amplification	Single path amplifier		Standard Model			
Options	Dual redundant amplifier Selectable hot or cold standby, 1:1 redundancy with auto switch-over based on amplifier current monitoring.					OPT-R
	DC pass port 1 to common port.					OPT-D
	Dual redundant amplifier and DC pass port 1.					OPT-RD
10MHz Insertion Loss	<1 dB		Port 1 to common only			
Isolation 850-2250 MHz	Typical	28 dB	28 dB	28 dB	28 dB	28 dB
	Minimum	24 dB	24 dB	24 dB	24 dB	24 dB
Isolation 2250-2450 MHz	Typical	28 dB	28 dB	28 dB	24 dB	24 dB
	Minimum	24 dB	24 dB	24 dB	22 dB	22 dB
Noise Figure (typical)	50Ω	10 dB				
	75Ω	12 dB				
Output 1dB GCP	0 dBm					
OIP3	+10 dBm					
OIP2	+30 dBm					
3rd Order Intermodulation Level	-40 dBc		With 2 equi-magnitude -13dBm carriers. Total power -10dBm.			
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 (above mean sea level)

Power		
PSU Power	85-264Vac 50/60Hz	Fused 2A
AC Consumption	<20 W	At steady state. With max rated LNB current supplied
LNB Power	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 and status available through comms. Thresholds settable by user through comms.	Controlled by Ethernet
PSU Redundancy	Dual redundant PSUs with dual IEC inlets	Diode OR. Not hot swap

System Control	
Communication	RJ45 port with 10baseT/100baseTX Ethernet offering web browser access, SNMP, and ETL Proprietary TCP Protocol.
Alarms	Dry contact (D-type) & Ethernet (RJ45) for PSU & LNB supply. Full status and alarms are also available via the Ethernet interface
Display	Tri colour LEDs to indicate PSU, LNB supply and amplifier status on front panel.

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

**Preliminary Specifications**

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.