ETL Systems
Excelling in RF Engineering

Model Number:
D0116S1ULA-22414-xxxx

16-way Single L-band Active Dextra Series Splitter

with dual redundant amplifiers (OPT-R), switchable LNB powering & -20 dB monitoring port

Typical applications:

- Satellite operators, VSAT, teleports, and broadcasters
- High resilience RF distribution where optimum satellite signal quality is required
- Teleports with limited rack space

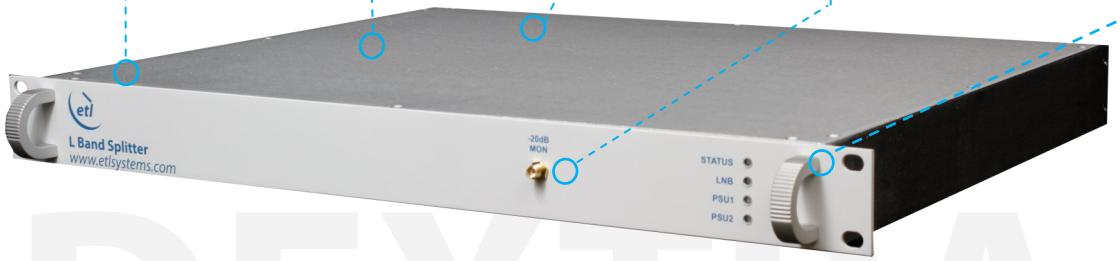
850 - 2450 MHz operating frequency range (Ka-band ready)

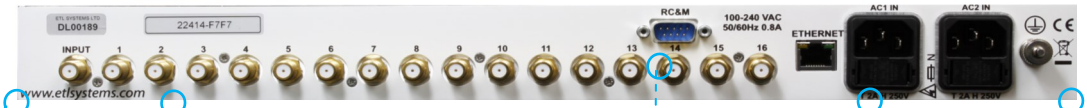
Resilience from dual redundant amplifiers (OPT-R version)

LNB Powering 13/18V & 22KHz tone with LNB current monitoring

Signal Monitoring via –20 dB monitor port

Monitoring via LEDs to indicate amplifier and power supply status





Compact housed in a 1U high chassis

Alarm Thresholds Settable by customer for LNB current

Dry contact alarm port for power supply & LNB supply status

Remote control & monitoring via RJ45 Ethernet port with SNMP, web browser interface & RS232/485 Serial port

Reliability from dual redundant power supplies

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Technical specifications and operating parameters

RF Parameters					
Capacity		16 way Splitter			
Front panel monitor		50Ω SMA		-20dB, 16dB return loss	
Frequency		850-2450MHz			
Connector & impedances		50Ω BNC	50Ω SMA	75Ω F-type	75Ω BNC
Gain Flatness	850-2450 MHz	±0.8 dB	±0.8 dB	±1.0 dB	±1.0 dB
	Any 36 MHz	±0.25 dB	±0.25 dB	±0.3 dB	±0.3 dB
Input return loss	Typical	20 dB	20 dB	20 dB	20 dB
	Minimum	16 dB	16 dB	16 dB	16 dB
Output return loss	Typical	21 dB	21 dB	21 dB	21 dB
	Minimum	16 dB	16 dB	16 dB	16 dB
Gain		0 ± 1.0 dB		Mean across band	
Group Delay	850-2450 MHz	2 ns maximum			
	Any 36 MHz	1 ns maximum			
Amplification		Single path amplifier			
Amplifier Redundancy (Option OPT-R)		Dual redundant amplifier. Selectable hot or cold standby, 1:1 redundancy with auto switch over based on amplifier current monitoring.			
Isolation	Typical	28 dB	28 dB	28 dB	28 dB
	Minimum	24 dB	24 dB	22 dB	22 dB
Isolation		Min. Between any two output ports			
Noise figure	50Ω	10 dB Typical			
	75Ω	12 dB Typical			
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.		
In Band Spurious		<-80 dBm			

Power		
AC Power	85-264Vac 50-60Hz	Fused 2A
AC Consumption	<20W	At steady state. With max rated LNB current supplied
Input RF Power	16dBm	Absolute maximum
LNB Power	0/13V/18Vdc, 500mA via common (RF in) port, over current protected at 800mA typical. 22kHz tone on/off enabled/disabled through comms. Ethernet port remote setting of LNB voltage and 22KHz tone; and LNB current alarm threshold.	
PSU	Dual redundant PSUs with dual IEC inlets.	Diode OR
Hot-swap PSU	No	

System Control	
Monitoring & Remote Control	Redundant amplifiers, LNB current and power supplies monitored via RJ45 port with 10baseT/100baseTX Ethernet offering web browser access, SNMP and ETL proprietary TCP protocol
Alarms	Dry contact, 9-way D-type alarm port for PSU and LNB supply alarm. Full status and alarms are also available via the Ethernet interface.
Display	Front panel LEDs for PSU, LNB and amplifier status.

Environmental	
Operating temperature	0 to 50˚C
Location	Indoor use only
Storage temperature	-20˚C to +75˚C
Humidity	85% non-condensing

Physical	
Dimensions	1U high x 350mm deep x 19" wide
Weight	3 Kg
Colour	White 00-E-55 semi-gloss

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.

Request A Quote

RoHS COMPLIANT

Pb-Free

ISO 9001 certified

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