ETL Systems
Excelling in RF Engineering

Model Number:
D0108S1ULA-22483-xxxx

8-way Single L-band Active Dextra Series Splitter

with variable attenuation, 10 MHz pass, LNB powering, dual redundant amplifiers (OPT-R version) & DC Pass (OPT-D version)

Typical applications:

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

Variable Attenuation on each output, independently adjustable

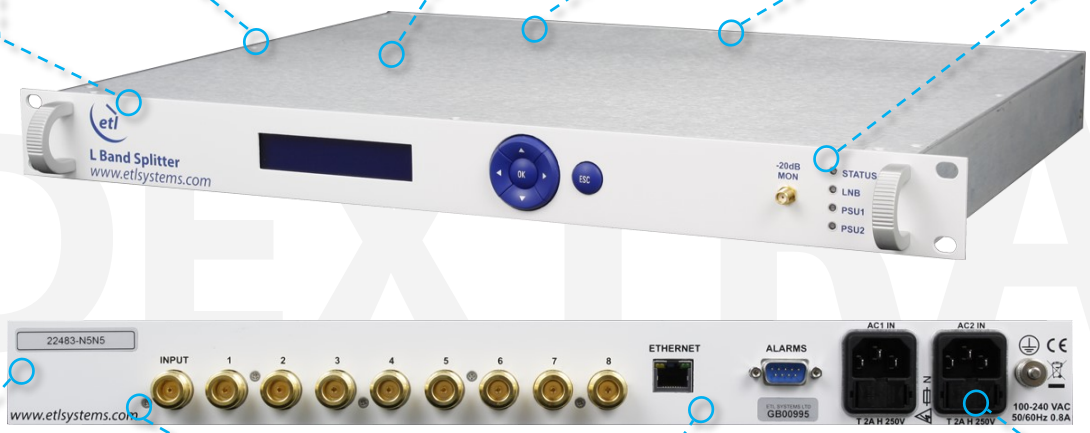
Signal Monitoring via –20 dB monitor port

Local Monitoring via front panel status LEDs for power, LNB & PSU

LNB Powering 13/18V & 22KHz tone

DC Pass on port 1 (OPT-D version)

10MHz pass on port 1 only



Compact housed in a 1U high chassis

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

Remote control & monitoring via RJ45 Ethernet port with SNMP & web browser with settable alarm thresholds for LNB current

Resilience from dual redundant amplifiers (OPT-R) & power supplies

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Technical specifications and operating parameters

RF Parameters						
Capacity		8-way				
Frequency Range		850-2450 MHz (Extended L-band)				
Front Panel Monitor		50Ω SMA	-20 dB, 16 dB return loss			
RF Connectors		50Ω SMA	50Ω N-type	50Ω BNC	75Ω BNC	75Ω F-type
Gain		0 ±1 dB Mean across operating frequency range, at minimum attenuation				
Variable Attenuation		30 steps at 1 ±0.5 dB each output independently adjustable				
Gain 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	20 dB	20 dB	20 dB	16 dB	16 dB
	Minimum	16 dB	16 dB	16 dB	12 dB	12 dB
Isolation 850-2450MHz	Typical	28 dB	28 dB	28 dB	28 dB	28 dB
	Minimum	24 dB	24 dB	24 dB	24 dB	24 dB
Group Delay Variation	Full Band	2 ns maximum				
	Any 36MHz	1 ns maximum				
Amplification		Single path amplifier (standard model)				
Amplifier Option		Dual redundant amplifier, selectable hot or cold standby, 1:1 redundancy with auto switch-over based on amplifier current monitoring .	Option: OPT-R			
		DC pass port 1 to common port	Option: OPT-D			
		Dual redundant amplifier and DC pass port 1	Option: OPT-RD			
10MHz Insertion Loss		<1.5 dB	Port 1 to common only. Max input +10dBm			
10MHz Rejection		>55dB	On ports 2 to 8			
Isolation 850-2450 MHz	Typ	28 dB	Min. between any two output ports			
	Min	24 dB				
Noise Figure	50Ω	10 dB typical	At minimum attenuation			
	75Ω	12 dB typical				
Output 1dB GCP		0 dBm minimum	At minimum attenuation			
OIP3		+10 dBm minimum	At minimum attenuation			
OIP2		+30 dBm minimum	At minimum attenuation			
Input RF Power		16 dBm	Absolute maximum			
In Band Spurious		< -80 dBm	Non signal Related			
		< 60dBc	Signal Related Spurs			

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	<20W	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.	
PSU	Dual redundant with dual IEC inlets.	Diode OR. Not hot swap
MTBF	100,000 hours	

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
Monitoring & Local Control	Via front panel push buttons & LCD. Tri colour LEDs to indicate PSU, LNB supply and amplifier status.
Alarms	Dry contact, change-over via 9-way D-type. Available alarms are: PSU and LNB supply. Full status and alarms are also available via the Ethernet interface.
Communication	RJ45 port with 10baseT/100baseTX Ethernet offering web browser access, SNMP, and ETL Proprietary TCP Protocol

Physical	
Dimensions	1U high x 350mm deep x 19" wide
Weight	3 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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