ETL Systems
Excelling in RF Engineering

Model Number:
D0108S1ULA-22412

8-way Single L-band Active Dextra Series Splitter with dual redundant amplifiers (OPT-R version), switchable LNB powering & -20 dB monitoring port

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

The Dextra splitter range has been designed for high resilience RF distribution, and optimum satellite signal quality. The splitter benefits from excellent RF performance, compact form factor as well as being a highly resilient solution minimising the risk of expensive downtime for the satcoms user

Compact 1x8-way splitter housed in a 1U high chassis

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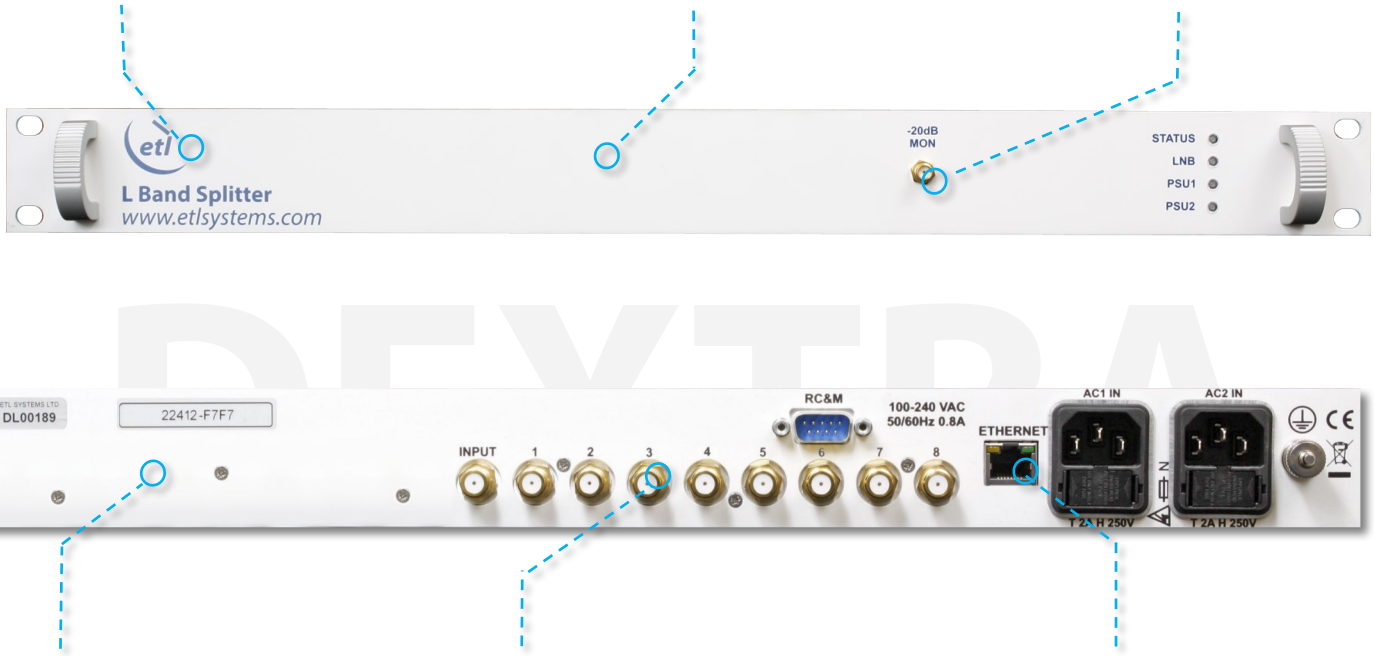
-20dB monitor port on the front panel



LNB Powering 0/13/18V LNB Powering (±22 KHz tone) and current monitoring

Resilience from dual redundant PSUs and amplifiers (OPT-R version)

Control & monitoring remotely via RJ45 Ethernet port with SNMP, web browser interface.

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Technical specifications and operating parameters

RF Parameters						
Capacity		8-way Splitter				
Front panel monitor		50Ω SMA			-20dB, 16dB return loss	
Frequency		850-2450MHz				
Connector & impedances		50Ω BNC	50Ω SMA	50Ω N-type	75Ω F-type	75Ω BNC
Gain Flatness	Full band	±0.8 dB	±0.8 dB	±0.8 dB	±1.0 dB	±1.0 dB
	Any 36 MHz	±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
Input Return Loss	Typical	21 dB	21 dB	21 dB	21 dB	21 dB
	Minimum	16 dB	16 dB	16 dB	16 dB	16 dB
Gain		0 ± 1.0 dB		Mean across band		
Group Delay	Full band	2 ns maximum				
	Any 36 MHz	1 ns maximum				
Amplification		Single path amplifier (option)				
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 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 850-2250 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	50Ω	10dB typ. 12dB Max.				
	75Ω	12dB typ. 14dB Max.				
Output 1dB GCP		0dBm typ. –2dBm min.				
OIP3		+14dBm typ. +10dBm min.				
OIP2		+30dBm typ. +27dBm min.				
Input RF power		16dBm. Absolute Maximum				
In Band Spurious		<- 80dBm				

System Control	
Local Control & Monitoring	Front panel Tri colour LEDs to indicate PSU, LNB supply and amplifier status.
Remote Control & Monitoring	RJ45 port with 10baseT/100baseTX Ethernet offering web browser access, SNMP, and ETL Proprietary TCP Protocol
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.

Power		
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 Power	85-264Vac 50/60 Hz	Fused 2A
PSU	Dual redundant & alarmed with dual IEC inlets	Diode OR.
AC Consumption	<20W	At steady state. Withy max rated LNB current supplied

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	10,000m AMSL (above mean sea level)	

Physical	
Input & output ports	50Ω BNC, SMA, N-type, 750Ω F-type, BNC
Dimensions	1U high x 350mm deep x 19" wide
Weight	3.05 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.

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RoHS COMPLIANT

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ISO 9001 QUALITY MANAGEMENT

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