ETL Systems
Excelling in RF Engineering

16-way Single Active Dextra Series IF Splitter with
dual redundant amplifiers (OPT-R version)

Typical applications:
- Satellite operators, VSAT, teleports & broadcasters
- High resilience RF distribution where optimum satellite signal quality is required
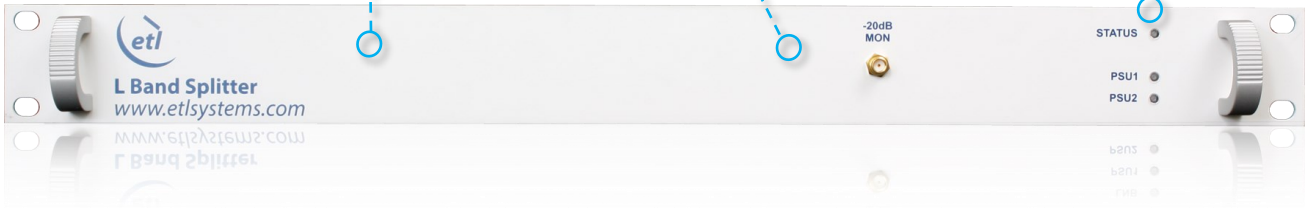
50 - 1000 MHz operating frequency range

Signal Monitoring via –20 dB monitor port

Local Monitoring via front panel status LEDs for power & PSU

etl
L Band Splitter
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-20dB MON

STATUS
PSU1
PSU2

ETL SYSTEMS LTD
EC00551

INPUT 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
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ALARMS
ETHERNET
AC1 IN
AC2 IN

T 2A H 250V   T 2A H 250V

100-240 VAC
50/60Hz 0.8A

Compact single 16-way splitter housed in a 1U high chassis

Dry contact alarm port for power supply status & summary alarm

Remote control & monitoring via RJ45 Ethernet port with SNMP & web browser interface

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

Technical specifications and operating parameters

RF Parameters				
Capacity	16-way splitter			
Frequency Range	50-1000 MHz (IF)			
Front Panel Monitor	50Ω SMA	-20 dB, 16 dB return loss		
RF Connectors & Impedances	50Ω SMA	50Ω BNC	75Ω BNC	75Ω F-type
Gain	0 ±1 dB	Mean across band		
Gain Flatness	Full Band	±1.0 dB	±1.0 dB	±1.2 dB	±1.2 dB
	Any 36MHz	±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
Isolation @ 70 MHz	Typical	30 dB	30 dB	30 dB	30 dB
	Minimum	20 dB	20 dB	20 dB	20 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		
Noise Figure	14 dB			
Output 1dB GCP	-5 dBm			
OIP3	+7 dBm			
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	<15 W	At steady state
LNB Power	None	
PSU Redundancy	Dual redundant with dual IEC inlets.	Diode OR. Not hot swap.

System Control	
Monitoring & Remote Control	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 & summary. Full status & alarms are also available via the Ethernet interface.
Display	Tri colour LEDs to indicate PSU status via front panel.

Physical	
Dimensions	1U high x 350mm deep x 19" wide
Weight	3.1 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.

ESATCOM INC

Esatcom Inc.
www.esatcom.com
Tel: 718.276.0800
Email: sales@esatcom.com

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