ETL Systems
Excelling in RF Engineering

Model Number:
D0104D1UIA-22471-XXXX

4-way Dual IF Active Dextra Series Splitter

with dual redundant amplifiers (OPT-R version)

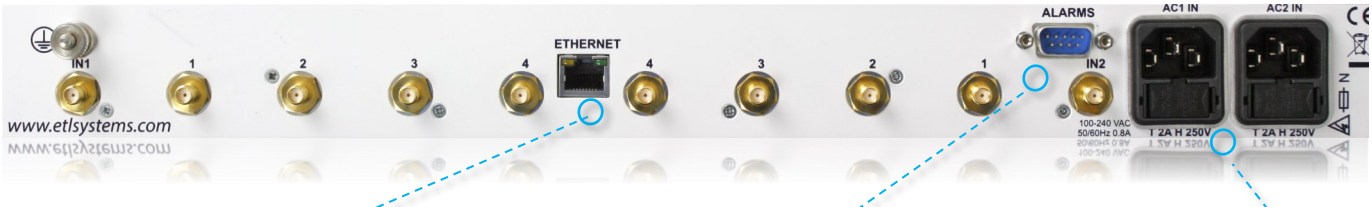
Typical applications:
- Satellite operators, VSAT, teleports & broadcasters
- High resilience RF distribution, & optimum satellite signal quality

50-1000 MHz operating frequency range

Compact 2 x 2-way splitters housed in a 1U high chassis

-20dB monitor ports to measure input signal levels

Local monitoring via front panel LEDs for power supply and amplifier status



Remote control & monitoring via RJ45 port with web browser access & SNMP

Dry contact alarm port for power supply & summary alarm

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

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Technical specifications and operating parameters

RF Parameters						
Capacity		Dual 4-way Splitter				
Frequency Range		50-1000 MHz				
Front Panel Monitor		50Ω SMA			-20 dB, 16 dB return loss.	
RF Connectors & Impedances		50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-type
Gain		0±1.0 dB Mean across band				
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
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 36 MHz	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.			OPT-R	
Isolation at 70 MHZ	Typical (21 dB typical at 1000 MHz)	30 dB	30 dB	30 dB	30 dB	30 dB
	Minimum (16 dB typical at 1000 MHz)	20 dB	20 dB	20 dB	20 dB	20 dB
Noise Figure		14 dB typical				
Output 1 dB GCP		0 dBm				
OIP3		+10 dBm				
Input RF Power		16 dBm		Absolute Maximum		
In Band Spurious		< -80 dBm				

Power		
PSU Power	85-264Vac 50/60Hz	Fused 2A
AC Consumption	< 15 W	At steady state
LNB Power	None	
PSU Redundancy	Dual Redundant PSUs with dual IEC inlets.	Diode OR. Not hot-swap.

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)

System Control	
Alarms	Dry contact, change-over via 9-way D-type. Available alarms are: PSUs and summary alarm. Full status and alarms are also available via the Ethernet interface.
Display	Tri colour LEDs to indicate PSU and amplifier status on front panel.
Communication	RJ45 port with 10baseT/100base TX Ethernet offering web browser access, SNMP, and ETL Proprietary TCP Protocol.

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.

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