ETL Systems

Excelling in RF Engineering

Model Number:
C0401D1UIA-22476-XXXX

4-way Dual IF Active Dextra Series Combiner

with dual redundant amplifiers (OPT-R version)

Typical applications:

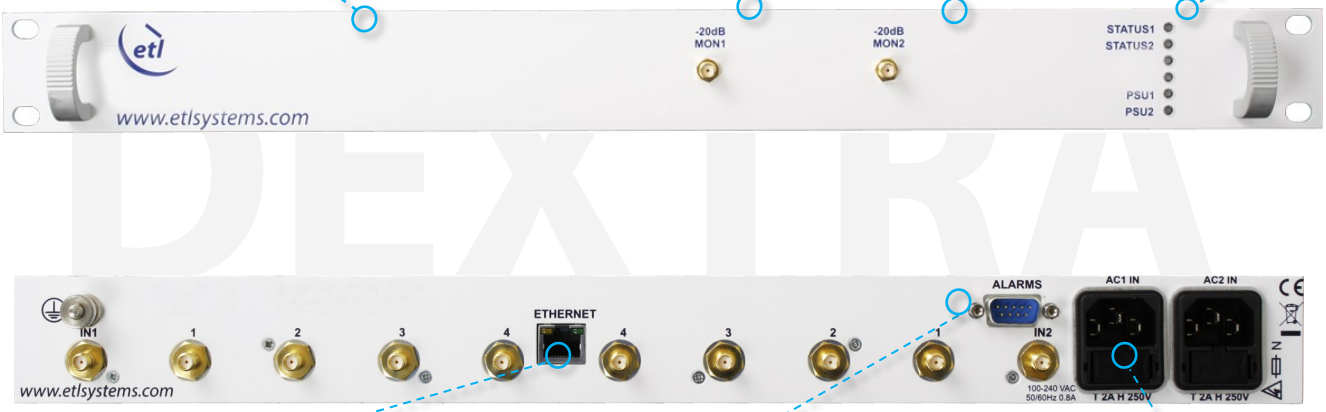
- Satellite operators, VSAT, teleports & broadcasters.
- IPTV and DTH headend content distribution.
- High resilience RF distribution where optimum satellite signal quality is required.
- Redundancy applications for remote satellite teleports.
- SNG & Outside Broadcast Trucks

Signal Monitoring via –20 dB monitor port

50 - 1000 MHz operating frequency range.

Local control & monitoring via front panel status LEDs for amplifier and PSU status

Compact 2 x 4-way combiners housed in a 1U high chassis



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

Dry contact alarm port & serial communications for power supply status

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

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Technical specifications and operating parameters

RF Parameters					
Capacity		Dual 4-way Combiner			
Front Panel Monitor		50Ω SMA	-20dB, 16dB return loss		
Frequency Range		50 to 1000 MHz			
RF Connectors & Impedances		50Ω SMA	50Ω BNC	75Ω BNC	75Ω F-type
Gain (dB)		0±1.0			
Gain Flatness	Full band	±0.8 dB	±0.8 dB	±1.0 dB	±1.0 dB
	Any 36MHz	±0.25 dB	±0.25 dB	±0.3 dB	±0.3 dB
Input Return Loss	Typical	21 dB	21 dB	21 dB	21 dB
	Minimum	16 dB	16 dB	16 dB	16 dB
Output Return Loss	Typical	20 dB	20 dB	20 dB	20 dB
	Minimum	16 dB	16 dB	16 dB	16 dB
Group Delay Variation	Full band	2 ns maximum			
	Any 36MHz	1 ns maximum			
Amplification		Single path amplifier	Standard model		
Isolation at 70 MHz	Typical	30 dB			
	Minimum	20 dB			
Isolation at 1000 MHz	Typical	21 dB			
	Minimum	16 dB			
Noise Figure		20 dB			
Output 1dB GCP		+10 dBm			
LNB Power		N/A			
OIP3		+20 dBm			
OIP2		+30dBm			
3rd Order Intermodulation Level		-40 dBc	With 2 equi-magnitude – 13dBm carriers. Total power—10dBm		
Input RF Power		20 dBm			
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 & Alarms		
PSU Power	85-264Vac 50-60Hz	Fused 2A
AC Consumption	<15W	
BUC Power	None	
PSU Redundancy	Dual Redundant PSUs with dual IEC inlets.	Diode OR. Not hot-swap

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

Physical	
Dimensions	1U high x 200mm deep x 19" wide
Weight	2 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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