ETL Systems
Excelling in RF Engineering

Model Number: C0801S1ULA-22457-xxxx

8-way Single L-band Active Dextra Series Combiner with dual redundant amplifiers (OPT-R version) & 10MHz pass on port 1

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

Compact housed in a 1U high chassis

850 - 2450 MHz operating frequency range. Ka-band ready

Signal monitoring via –20dB monitor port

10MHz pass on port 1 only

Local Monitoring via front panel status LEDs for power & PSU.

Remote control & monitoring via RJ45 Ethernet port with SNMP, ETL Proprietary TCP & web browser interface

Dry contact alarm port & serial communications power supply status

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

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Technical specifications and operating parameters

RF Parameters						
Capacity		8-way Combiner				
Frequency Range		850-2450 MHz (Extended L-band)				
Front Panel Monitor		50Ω SMA			-20dB, 16dB return loss	
RF Connectors		50Ω BNC	50Ω SMA	50Ω N-type	75Ω F-type	75Ω BNC
Gain		0 ± 1.0 dB				
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	21 dB	21 dB	21 dB	21 dB	21 dB
	Minimum	16 dB	16 dB	16 dB	16 dB	16 dB
Output Return Loss	Typical	20 dB	20 dB	20 dB	20 dB	20 dB
	Minimum	16 dB	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	
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	
10MHz Insertion Loss		<1 dB			Port 1 to common only	
Isolation 850-2250MHz	Typical	28 dB	28 dB	28 dB	28 dB	28 dB
	Minimum	24 dB	24 dB	24 dB	24 dB	24 dB
Isolation 2250-2450MHz	Typical	28 dB	28 dB	28 dB	24 dB	24 dB
	Minimum	24 dB	24 dB	24 dB	22 dB	22 dB
Noise Figure		24 dB				
Output 1dB GCP		+10 dBm				
OIP3		+20 dBm				
OIP2		+30 dBm				
3rd Order intermodulation level		-40 dBc			With 2 equi-magnitude –13dBm carriers. Total power –10 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

Power		
PSU Power	85-264Vac 50-60Hz	Fused 2A
LNB Power	None	
PSU	Dual redundant PSU's with dual IEC inlets	Diode OR. Not hot-swap
Hot-swap PSU	No	
AC Consumption	<20 W	At steady state

System Control	
Alarms	Dry contact, change over via 9-way D-type. Available alarms are: PSU Supply. Full status and alarms are also available via the Ethernet interface
Display	Tri coloured LED's to indicate PSU supply and amplifier status.
Communications	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	3.05 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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