ETL Systems
Excelling in RF Engineering

Model Number:
D0216S1UIA-22482

Dual input 16-way 10 MHz Distribution Amplifier / Splitter with individual gain controllable outputs & dual redundant amplifiers

Typical applications:
- Mission critical 10MHz reference signal distribution for communication systems, satellite earth stations, test facilities and engineering laboratories.

System Flexibility

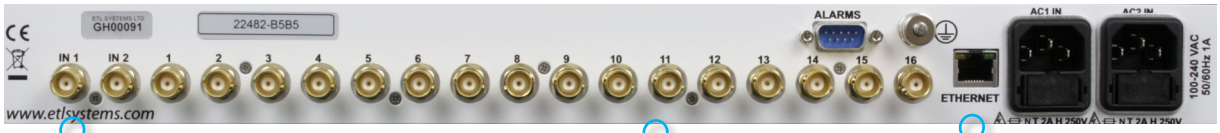
High power handling with 2 gain modes to allow 15 dBm in and/or out

System Management

RF level monitoring of all inputs and outputs - with user selectable thresholds and alarms

System Resilience

Dual redundant input amplifiers and auto switching. Hot and cold standby amplifier selection



System Resilience

Dual inputs for enhanced resilience. Auto switchover function.

System Control

Variable gain per output to meet user system needs

System Control

Control & monitoring remotely via RJ45 Ethernet port with SNMP, web browser interface & RS232/485 Serial port. Locally via front panel push buttons and display.

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Technical specifications and operating parameters

RF Parameters			
Capacity		16-way Splitter	
Number of inputs		2	Dual input A or B input manually selectable or Auto mode based on input level monitoring.
Number of outputs		16	
Frequency		5-20 MHz	
Gain Adjustment Range (software selectable)	Low Gain Mode (>7 dBm IN)	-10 to 0 dB in 1 dB steps	Outputs individually adjustable, all are set in either low or high gain mode
	High Gain Mode (<7 dBm IN)	-2 to +8 dB in 1 dB steps	
Gain Flatness	Full band	±0.25 dB	
Input Return Loss	Typical	20 dB	
	Minimum	16 dB	
Output Return Loss	Typical	20 dB	
	Minimum	16 dB	
Amplifier Redundancy		Input stage amplifiers. 1+1 redundancy with auto switchover based on amplifier current	
		User selectable hot or cold standby redundant amplifiers for enhanced reliability	
Isolation		>85 dB	Between any RF ports
Maximum Operating Input Level		+15 dBm	
Maximum Operating Output Level		+15 dBm	
Additive SSB Phase Noise		1 Hz 10 Hz 100 Hz 1 kHz 10 kHz+ 100 kHz	-135 dBc -145 dBc -155 dBc -161 dBc -162 dBc -163 dBc	At +15 dBm Output @ unity gain
Spurious Signals		< -80 dBc	
Harmonics		-40 dBc typical at 10 MHz	

Power		
PSU Power	85-264Vac 50/60Hz	Fused 2A
AC Consumption	<50W	At steady state
PSU Redundancy	Dual redundant PSUs	Dual IEC inlet
Hot-swap PSU	None	

System Control		
Local Control & Monitoring	LCD and keypad on front panel.	
Remote Control & Monitoring	RJ45 port with 10baseT/100baseTX Ethernet offering web browser access, SNMP, and ETL Proprietary TCP Protocol.	
Monitoring Functions	Input and Output RF level reporting. Amplifier LED status on front panel. User selectable alarm thresholds.	Controlled by Ethernet / front panel
Alarms	Dry contact, change over via 9-way D-type. PSU, amplifiers and signal status alarms. Full status and alarms also available via the Ethernet interface.	

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	10,000 feet AMSL (above mean sea level)	

Physical	
Impedance & RF Connectors	50Ω BNC, 50Ω SMA
Dimensions	1U high x 350mm deep x 19" wide
Weight	4.5 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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