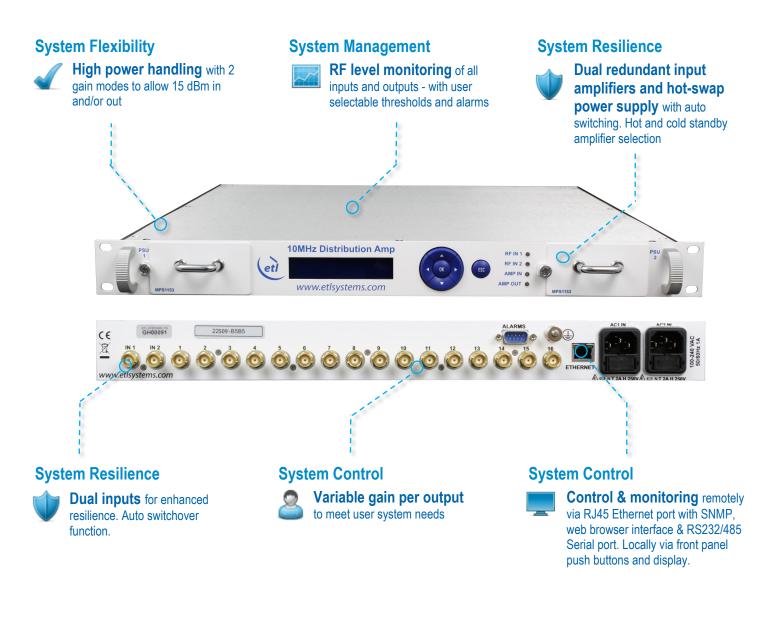


Dual input 16-way 10 MHz Distribution Amplifier /

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.





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Model Number: D0216S1UIA-22509-xxxx

Technical specifications and operating parameters

RF Parameters					
Capacity		16-way Sp	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	-10 to 0 dB in 1 dB steps		Individually	
	High Gain Mode	-2 to +8 dl in 1 dB ste	adjustable per output		
Gain Flatness	Full band	±0.25 dB			
Input Return Loss	Typical	22 dB			
	Minimum	18 dB			
Output Return	Typical	22 dB			
Loss	Minimum	18 dB	18 dB		
Amplifier Option		Dual redundant amplifier INPUT AMP CCT ONLY Hot standby, 1:1 redundancy with auto switch- over based on amplifier current monitoring.			
Isolation		>85 dB		Between any RF ports	
Maximum Input & Output Level		+15 dBm			
Additive SSB Phase Noise	High Gain Mode	1 Hz 10 Hz 100 Hz 1 kHz 10 kHz 100 kHz	-130 dBc -140 dBc -150 dBc -155 dBc -162 dBc -163 dBc	At +15 dBm Output @ unity gain	
	Low Gain Mode	1 Hz 10 Hz 100 Hz 1 kHz 10 kHz 100 kHz	-137 dBc -148 dBc -155 dBc -160 dBc -162 dBc -163 dBc	At +15 dBm Output @ unity gain	
Spurious Signals		< -80 dBc			
Harmonics		-55 dBc typical at 10 MHz			

Power			
AC Power	85-264Vac 50-60Hz	Fused 2A	
AC Consumption	<20W	At steady state	
PSU	Dual redundant PSUs	Dual IEC inlet	
Hot-swap PSU	Yes		

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 Options	50Ω BNC / 50Ω SMA	
Dimensions	1U high x 450mm 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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