



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 hot-swap power supply** with 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.



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	-10 to 0 dB in 1 dB steps	Individually adjustable per output
	High Gain Mode	-2 to +8 dB in 1 dB steps	
Gain Flatness	Full band	±0.25 dB	
Input Return Loss	Typical	22 dB	
	Minimum	18 dB	
Output Return Loss	Typical	22 dB	
	Minimum	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 -130 dBc 10 Hz -140 dBc 100 Hz -150 dBc 1 kHz -155 dBc 10 kHz -162 dBc 100 kHz -163 dBc	At +15 dBm Output @ unity gain
	Low Gain Mode	1 Hz -137 dBc 10 Hz -148 dBc 100 Hz -155 dBc 1 kHz -160 dBc 10 kHz -162 dBc 100 kHz -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.

