



16-way Single L-band Active Combiner

with 0-20dB variable gain

Typical applications:

- Satellite operators, VSAT, teleports, and broadcasters
- High resilience RF distribution, and optimum satellite signal quality

Variable gain to balance input signals

Hot-swap variable gain amplifiers

Local monitoring via front panel status LEDs for power & PSU

850- 2150 MHz operating frequency range



Resilience from dual redundant power supplies

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

Dry contact alarm port for power supply status





Technical specifications and operating parameters

RF Parameters						
Capacity	16-way					
Frequency Range	850-2150 MHz (L-band)					
RF Connectors	50Ω SMA	50Ω N-type	50Ω BNC	75Ω BNC	75Ω F-type	
Flatness	850-2150MHz	±1.0 dB	±1.0 dB	±1.0 dB	±1.5 dB	±1.5 dB
	Any 36MHz	±0.25 dB	±0.25 dB	±0.25 dB	±0.3 dB	±0.3 dB
Input Return Loss	Typical	18 dB	18 dB	16 dB	12 dB	10 dB
	Minimum	12 dB	12 dB	10 dB	8 dB	8 dB
Output Return Loss	Typical	15 dB	15 dB	14 dB	10 dB	10 dB
	Minimum	11 dB	11 dB	10 dB	8 dB	8 dB
Gain	0-20 dB ±1.0 dB, Mean across band					
Gain Steps	0.5 dB ± 0.1 dB Typical					
Isolation (Min. between any two output ports)	Typical	28 dB	28 dB	28 dB	28 dB	28 dB
	Minimum	24 dB	24 dB	24 dB	24 dB	24 dB
Noise Figure	24 dB typical at maximum gain 28 dB typical at minimum gain					
Input RF Power	20 dBm			Absolute maximum		
Output 1dB GCP (@1.5GHz)	+16 dBm typical at maximum gain +8 dBm typical at minimum gain					

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

Power		
PSU Power	85-264Vac 50-60Hz	Fused 2A
AC Consumption	<20W	Max. consumption at steady state
LNB Power	None	
PSU	Dual redundant with dual IEC inlets	Diode OR. Not hot swap.

System Control	
Remote Control	Via RJ45 Ethernet port 10/100 Base T. TCP/IP, SNMP & Web browser interface
Alarms	Dry contact (D-type) & Ethernet (RJ45) for PSU status
Display	Front panel tri colour LED for combiner & PSU status

Physical	
Dimensions	2U high x 350mm deep x 19" wide
Weight	8 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.

