



Model Number: C1601S2ULA-22201-xxxx

16-way Single L-band Active Combiner

with dual redundant amplifiers



This single 16-way L-band active combiner benefits from automatic, cold standby, dual redundant amplifiers on the input which provides unity gain, and dual redundant power supplies for reliability in service.

Front View of Model C1601S2ULA-22201-xxxx

Front panel LED's provide a visual status for the power supplies and amplifier. Monitoring can also be done via a dry contact alarm port on the rear panel.



Rear View of Model C1601S2ULA-22201-N5N5 (this unit is fitted with 50 ohm N-type connectors)

This unit is available in a range of impedances and connector types (model numbers will vary).

This unit is available with Ethernet monitoring of the amplifier and power supply status - see Model C1601S2ULA-22201-xxxx-E.





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RF Engineering and Custom Build

Technical specifications and operating parameters

RF Parameters						
Capacity	16-way					
Frequency Range	850-2150 MHz (L-band)					
RF Connectors	50Ω BNC	75Ω BNC	75Ω F-type	50Ω N-type	50Ω SMA	
Flatness	850-2150MHz	±1.0 dB	±1.0 dB	±1.3 dB	±0.75 dB	±0.75 dB
	Over any 36MHz	±0.5 dB	±0.5 dB	±0.5 dB	±0.35 dB	±0.35 dB
Input Return Loss*	16 dB	15 dB	12 dB	18 dB	18 dB	
Output Return Loss*	10 dB	10 dB	9 dB	12 dB	12 dB	
Gain	0 ± 2 dB		Nominal, mean across band			
1 dB Compression	12 dBm typical, 10 dBm minimum					
Noise Figure	25 dB typical, 28 dB max					
Input Isolation	25 dB		Typical isolation between any 2 input ports			
Amp Redundancy	1-to-1 redundant		Cold redundancy & current sensing			

* Typical figures. Worst case values may vary up to 3dB below the quoted values

System Control	
Display	Front panel LED's for PSU & Amplifier status
Alarms	Dry contact alarm port on rear panel for PSU failure

Physical	
Dimensions	2U high x 350mm deep x 19" wide
Weight	8 kg
Colour	White 00-E-55 semi-gloss (Front panel)

Power		
AC Power	85-264V AC (50/60Hz)	
BUC Power	None	
PSU	Dual Redundant	Diode OR
Hot-swap PSU	No	

Environmental	
Operating temperature	0 to 45°C
Location	Indoor use only
Storage temperature	-20°C to +75°C
Humidity	85% non-condensing

Key Features
Dual Redundant amplifiers
Dual redundant power supplies
LED's on the front panel to indicate PSU and amplifier status
Alarm contacts for external monitoring

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