

## Model Number: C1601S2ULA-22226-N5N5

# 16-way L-band Active Combiner

with dual redundant amplifiers & 10 MHz source



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

#### Front View of Model C1601S2ULA-22226-N5N5

Front panel LED's offer a visual status of the amplifiers and power supplies and a dry contact alarm port is provided on the rear panel for external monitoring.

The unit also features 10MHz injection, either from an internal 10MHz reference source or via an external supply.



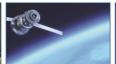
#### Rear View of Model C1601S2ULA-22226-N5N5

This particular unit has 50 ohm N-type connectors, but other impedances and connector types are available (model numbers will vary).

This unit is also available with Ethernet monitoring (see Model C1601S2ULA-22226-N5N5-E)

















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16-way L-band Active Combiner with dual redundant amplifiers & 10 MHz source

RF Engineering and Custom Build

#### Technical specifications and operating parameters

	RF P	arameters		
Capacity		16-way		
Frequency Range		850-2150 MHZ (L-band)		
Gain	Gain		0 dB ± 2 dB nominal, mean across band	
Flatness	850-2150MHz	± 1.5 dB		
	Over any 36MHz	± 0.5 dB		
1dB Compr	ression	12 dBm		
Noise Figure	Э	10 dB		
Input Return	n Loss	18 dB typical		
Output Ret	Output Return Loss		15 dB typical	
Amp Redur	Amp Redundancy		Cold redundancy & current sensing	
Internal Ref	Internal Reference		Ovenised Crystal Oscillator	
10MHz Outp	out Level	+10 dBm ± 2 dB		
Frequency Stability over temperature		± 1 x 10-8	0 to +55°C	
Reference	Source Ageing	± 5 x 10-8 / year		
			± 5 x 10-10 / year	
Reference :	Source Phase	<-85 dBc / Hz @ 1Hz		
NOISE		<-115 dBc / Hz @ 10Hz		
		<-140 dBc / Hz @ 100Hz		
		<-150 dBc / Hz @ 1000Hz		
		<-155 dBc / Hz @ 10000Hz		
Warm up tii	Warm up time		At 25°C to within <± 1 x 10-7	
10MHz Ref S	Source	U-link on rear panel to select internal/ external. The 10MHz reference is injected onto the common L-band Port	Two 50 ohm BNC's on rear panel for 10MHz external IN and internal OUT, with a U-Link supplied. There is no 10MHz injection if the U-Link is removed and the port is terminated (i.e. no external source supplied)	

Power			
AC Power	85-264Vac 50/60Hz		
LNB Power	None		
PSU	Dual redundant		
Hot-swap PSU	No		

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

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

Physical				
Input Connector	N-type			
Input Impedance	50Ω			
Output Connector	N-type			
Output Impedance	50Ω			
Dimensions	2U high x 350mm deep x 19" wide			
Weight	8 kg			
Colour	White 00-E-55 semi-gloss			

Key Features	
Dual redundant amplifiers	
10MHz reference source	
Dual redundant power supplies	
Alarm contacts for external monitoring	

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