



**Model Number: D0108S1ULA-22246-N5N5-D8**

## 8-way Single L-band Active Splitter

With dual redundant amplifiers, internal 10MHz source & LNB powering



Front View of Model D0108S1ULA-22246-N5N5-D8

This high resilience single 8-way L-band active splitter benefits from dual redundant amplifiers and dual redundant power supplies in a compact 1U chassis. LNB referencing is provided on the common port via an internal 10MHz source.

Amplifier current sensing triggers the automatic switchover to the (cold standby) redundant amplifier.

Front panel LED's provide a visual status for the power supplies and amplifiers. Remote monitoring is available via dry contact alarm on the rear panel.



Rear View of Model D0108S1ULA-22246-N5N5-D8

LNB powering (18V DC) can be switched on/off from the rear panel.

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





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8-way Single L-band active splitter with dual redundant amplifiers, internal 10MHz source & LNB powering

RF Engineering and Custom Build

## Technical specifications and operating parameters

RF Parameters		
Capacity	8- way	
Frequency Range	850-2150 MHz (L-band)	
Gain	0 dB $\pm$ 1.0 dB	
Flatness	850-2150MHz	$\pm$ 1.0 dB
	Any 36MHz	$\pm$ 0.5 dB
Noise Figure	9 dB	
1 dB Compression	0 dBm	
Input Return Loss	18 dB typical	
Output Return Loss	15 dB typical	
Amp Redundancy	1-to-1 redundant (cold standby)	Auto switchover based on current sensing
10MHz Source		
Internal Reference	10MHz Sine Wave (OCXO)	
10MHz Output Level	-1dBm $\pm$ 2dB (always on via common port)	
Reference Source Ageing	$\pm$ 5 x 10 <sup>-8</sup> per year	
	$\pm$ 5 x 10 <sup>-10</sup> per day	
Frequency stability over temp	$\pm$ 1 x 10 <sup>-8</sup>	0 to 55°C
Phase Noise	1Hz	< -85 dBc /Hz
	10Hz	< -115 dBc /Hz
	100Hz	< -140 dBc /Hz
	1000Hz	< -150 dBc /Hz
	10000Hz	< -155 dBc /Hz
Warm up time	< 2 minutes	At 25°C to < $\pm$ 1 x 10 <sup>-7</sup>

System Control	
Display	Front Panel LED's for monitoring PSU's
Local Control	Switchable LNB Powering from rear panel
Alarms	Dry contact alarm port on rear panel

Power	
AC Power	85-264Vac 50/60Hz
LNB Power	18V nominal, 500mA max per channel, switchable on/off
PSU	Dual redundant
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

Physical	
Input Connector	N-type
Input Impedance	50 $\Omega$
Output Connector	N-type
Output Impedance	50 $\Omega$
Dimensions	1U high x 450mm deep x 19" wide
Weight	8 kg
Colour	White 00-E-55 semi-gloss

Key Features	
Dual redundant amplifiers	
Dual redundant power supplies	
Switchable LNB Powering	
Internal 10MHz Source	

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