



Model Number: **22241-N5N5**

RF Engineering
and Custom Build

Hybrid 8-way L-band Active Splitter & Combiner

With Dual Redundant Amplifiers & switchable LNB Powering



Front View of Model 22241-N5N5

This hybrid unit comprises a single 8-way L-band active combiner and a single 8-way L-band active splitter accommodated in a 2U high, 19" rack mountable chassis. This splitter shelf is ideal for satellite signal routing, where increased peace of mind is required.

The unit benefits from dual redundant power supplies and dual redundant amplifiers for reliability in service. Front panel LEDs provide a visual status for the power supplies and splitter and combiner modules. External monitoring can be done via the dry contact alarm port on the rear panel .



Rear View of Model 22241-N5N5

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





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Technical specifications and operating parameters

RF Parameters		
SPLITTER		
Capacity	8-way	
Frequency Range	850 -2150 MHz (L-band)	
Gain	0 dB \pm 2 dB nominal, mean	
Flatness	850-2150MHz	\pm 1.0 dB
	Any 36MHz	\pm 0.5 dB
1 dB Compression	0 dBm	
Noise	12 dB	
Amp Redundancy	1-to-1 redundant cold-redundancy & current sensing	
Input Return Loss	14 dB typical	
Output Return Loss	18 dB typical	
COMBINER		
Capacity	8-way	
Frequency Range	850-2150 MHz (L-band)	
Gain	0 dB \pm 2 dB	
Amplitude Variations	850-2150MHz	\pm 1.0 dB
	Any 36MHz	\pm 0.5 dB
1 dB Compression	+ 5 dBm	
Noise	17 dB	
Amp Redundancy	1-to-1 redundant cold-redundancy & current sensing	
Input Return Loss	18 dB typical	
Output Return Loss	14 dB typical	

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

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

Power	
AC Power	85-264Vac 50/60Hz
LNB Power	18V DC, 500mA (splitter and
PSU	Dual redundant
Hot-swap PSU	No

System Control	
Display	Front Panel LED's for splitter, combiner & PSU status
Alarms	Dry contact alarm port on rear panel

Key Features	
Nominal Unity Gain	
Dual redundant amplifiers	
Dual redundant power supplies	
Switchable LNB powering	

ETL SYSTEMS LIMITED
Coldwell Radio Station
Madley
Hereford
England HR2 9NE

TELEPHONE
+44 (0)1981 259020

EMAIL
info@etlsystems.com

FACSIMILE
+44 (0)1981 259021

WEB
www.etlsystems.com

