



Model Number: C0801S1UC3A-xxxx

RF Engineering
and Custom Build

Single 8-way Active C-Band Combiner



This single 8-way active combiner has been designed for the distribution of RF signals over the 3.4-6.5 GHz frequency range. It is housed in a compact 1U shelf.

Front view of Model C0801S1UC3A-xxxx



Rear view of Model C0801S1UC3A-xxxx (with 50Ω N-type connectors)

Connector options: This product is available with 50Ω N-type & 50Ω SMA connectors only.

Typical applications:

- Satellite operators, VSAT, teleports, and broadcasters.
- IPTV and DTH headend content distribution
- High resilience RF distribution where optimum satellite signal quality is required.
- C-band applications

Benefits & features:

- Dual redundant power supplies for reliability in service
- Housed in a compact 1U high chassis
- Resilient solution minimising the risk of expensive downtime for the satcoms user





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Technical specifications and operating parameters

RF Parameters			
Capacity		8 -way Combiner	
Frequency Range		3.4 to 6.4 GHz	C-band
RF Connectors		50Ω SMA	50Ω N-type
Gain	Nominal Mean	1±1 dB	1±1 dB
Gain Flatness	Full band	±2.5 dB	±2.5 dB
	Any 36 MHz	±0.75 dB	±1.0 dB
Input Return Loss	Typical	18 dB	16 dB
	Minimum	10 dB	10 dB
Output Return Loss	Typical	15 dB	14 dB
	Minimum	8 dB	8 dB
Isolation	Minimum	18 dB	18 dB
Noise Figure		17 dB	17 dB
1dB Gain Compression Point		0 dBm	0 dBm
MTBF		>500,000 hours	

Environmental		
Operating temperature	0 to +55°C	
Location	Indoor use only	
Storage temperature	-20°C to +75°C	Relative Humidity
Relative Humidity	20 to 85% non-condensing	

Power		
AC Consumption	10W	Total AC Input
PSU Power	85-264Vac 50/60Hz	Fused 2A
PSU Redundancy	Dual Redundant	Diode OR.
Hot-swap PSU	No	

Physical	
Dimensions	1U high x 350mm deep x 19" wide
Weight	4 kg
Colour	White 00-E-55 semi-gloss

PRELIMINARY SPECIFICATIONS

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