



Model Number: **C0801S1ULA-22420-XXXX**

# 8-way Single L-band Active Dextra Series Combiner

With dual redundant amplifiers (OPT-R version) & -20 dB monitoring port



The **Dextra** combiner range has been designed for high resilience RF distribution, and optimum satellite signal quality. The combiners benefit from excellent RF performance and compact form factor as well as advanced functionality.

## Advanced functionality:

- Dual redundant amplifiers (option)
- 20 dB monitor port on the front panel
- Web browser access (and SNMP) for control and monitoring
- Compact 1RU 19" chassis

## Benefits & features:

- Highly resilient solution minimising the risk of expensive downtime for the satcoms user
- Dual redundant power supplies
- Dual redundant amplifiers (option)

## Typical applications:

- Satellite operators, VSAT, teleports, and broadcasters
- High resilience RF distribution, and optimum satellite signal quality
- 850-2450 MHz to cover **Ka-band and HTS applications**

## RF performance:

- Specified to **ensure optimum signal quality** with high throughput / high bandwidth satcoms.
- 850-2450 MHz operating range
- Excellent Gain flatness (frequency response)
- High return loss
- High linearity
- Low noise figure

**Options:** Dextra combiners can be specified with single amplifier or hot/cold-standby dual-redundant amplifier options. Please specify OPT-R for redundant amplifier option. This is remote configurable. The range covers 4-way and 8-way combiners and splitters in both single and dual configurations. 16-way splitters and combiners are available as single units. All these are supplied in a 1RU case for space efficient rack mounting.





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### Technical specifications and operating parameters

#### RF Parameters

Capacity	8-way Combiner					
Front panel monitor	50Ω SMA	-20dB, 16dB return loss				
Frequency	850-2450MHz					
Connector & impedances	50Ω BNC	50Ω SMA	50Ω N-type	75Ω F-type	75Ω BNC	
Gain	0 ± 1.0 dB		Mean across band			
Gain Flatness	850-2450 MHz	±0.8 dB	±0.8 dB	±0.8 dB	±1.0 dB	±1.0 dB
	Any 36 MHz	±0.25 dB	±0.25 dB	±0.25 dB	±0.3 dB	±0.3 dB
Input return loss	Typical	21 dB	21 dB	21 dB	21 dB	21 dB
	Minimum	16 dB	16 dB	16 dB	16 dB	16 dB
Output return loss	Typical	20 dB	20 dB	20 dB	20 dB	20 dB
	Minimum	16 dB	16 dB	16 dB	16 dB	16 dB
Isolation	Typical	28 dB	28 dB	28 dB	28 dB	28 dB
850-2250MHz	Minimum	24 dB	24 dB	24 dB	24 dB	24 dB
Isolation	Typical	28 dB	28 dB	28 dB	24 dB	24 dB
2250-2450MHz	Minimum	24 dB	24 dB	24 dB	22 dB	22 dB
Group Delay	850-2450 MHz	2 ns maximum				
	Any 36 MHz	1 ns maximum				
Amplifier Redundancy (Option OPT-R)	Dual redundant amplifier. Selectable hot or cold standby, 1:1 redundancy with auto switch over based on amplifier current monitoring.					
Noise figure	24 dB Max					
Output 1dB GCP	+10 dBm Min					
OIP3	+20 dBm Min					
OIP2	+30 dBm Min					
In Band Spurious	<-80 dBm					

#### Power

AC Power	85-264Vac 50-60Hz	Fused 2A
AC Consumption	<20W	At steady state.
Input RF Power	16dBm	Absolute maximum
PSU	Dual redundant PSUs with dual IEC inlets.	Diode OR
Hot-swap PSU	No	

#### System Control

Monitoring & Remote Control	Redundant amplifiers and power supplies monitored via RJ45 port with 10baseT/100baseTX Ethernet offering web browser access, SNMP and ETL proprietary TCP protocol
Alarms	Dry contact, 9-way D-type alarm port for PSU supply. Full status and alarms are also available via the Ethernet interface.
Display	Front panel LEDs for PSU, and amplifier status.

#### Physical

Dimensions	1U high x 350mm deep x 19" wide
Weight	3 Kg
Colour	White 00-E-55 semi-gloss

#### Environmental

Operating temperature	0 to 50°C
Location	Indoor use only
Storage temperature	-20°C to +75°C
Humidity	85% non-condensing

#### Options

Please add the relevant suffix to the model number to indicate your required connectors:

BNC 50 Ω - B5B5  
BNC 75 Ω - B7B7  
F-type 75 Ω - F7F7  
N-type 50 Ω - N5N5  
SMA 50 Ω - S5S5

Please use suffix **OPT-R** to specify the option of dual redundant amplifiers

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