



8-way Dual 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.



Rear View of a similar model

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.





Model Number: C0801D1ULA-22421

RF Engineering
and Custom Build

8-way Dual L-band Active Dextra Series Combiner

Technical specifications and operating parameters

RF Parameters					
Capacity		Dual 8-way Combiner			
Front panel monitor		50Ω SMA	-20dB, 16dB return loss		
Frequency		850-2450MHz			
Connector & impedances		50Ω BNC	50Ω SMA	75Ω F-type	75Ω BNC
Gain Flatness	850-2450 MHz	±0.8 dB	±0.8 dB	±1.0 dB	±1.0 dB
	Any 36 MHz	±0.25 dB	±0.25 dB	±0.3 dB	±0.3 dB
Input return loss	Typ.	20 dB	21 dB	21 dB	21 dB
	Min	15 dB	16 dB	16 dB	16 dB
Output return loss	Typ.	19 dB	20 dB	20 dB	20 dB
	Min	15 dB	16 dB	16 dB	16 dB
Gain		0 ± 1.0 dB		Mean across band	
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.			
Isolation	850-2250MHz	28 dB Typical 24dB Minimum		28 dB Typical 24dB Minimum	
	2250-2450MHz	28 dB Typical 24dB Minimum		24 dB Typical 22dB Minimum	
Noise figure		24 dB			
Output 1dB GCP		+10 dBm			
OIP3		+20 dBm			
OIP2		+30 dBm			
3rd order intermodulation level		-40 dBc	With 2 equi-magnitude – 13dBm carriers. Total power - 10dBm.		
In Band Spurious		<-80 dBm			

Physical	
Dimensions	1U high x 350mm deep x 19" wide
Weight	3.05 Kg
Colour	White 00-E-55 semi-gloss

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 via D-type on rear, and via Ethernet PSU and amplifier status
Display	Front panel LEDs for PSU, and amplifier status.

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 SMA 50 Ω - S5S5
Please use suffix OPT-R to specify the option of dual redundant amplifiers

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

