



# Dextra Splitters & Combiners

With LNB powering, dual redundant amplifier options, 10MHz Pass options & DC pass options

### Typical applications:

- Satellite operators, VSAT, teleports, and broadcasters.
- High resilience RF distribution where optimum satellite signal quality is required.
- 850-2450 MHz to cover Ka-band and HTS applications.
- Redundancy applications for remote satellite teleports.



The Dextra range of RF splitters and combiners has been designed for high resilience RF distribution and combining of uplink and downlink satellite signals.

The range benefits from excellent RF performance and a compact form factor as well as advanced functionality including; web enabled control and monitoring, LNB powering and an option for dual redundant amplifiers for added resilience.

All models are equipped with a -20 dB SMA monitor port on the front panel.

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**Dual redundant amplifier option (Opt-R version)**



**LNB Powering**  
0/13/18V & 22 KHz tone & current monitoring



**Remote control & monitoring** via RJ45 Ethernet port with SNMP & web browser interface



**Resilience from dual redundant power supplies**



**Signal Monitoring** of each input with -20dB monitor port



**Compact housed** in a 1U high chassis



**DC Pass options (Opt-D version)**



**10MHz Pass options**





## Single Splitters

RF SPECIFICATIONS									
Model	D0104S1ULA -22410	D0108S1ULA -22412	D0116S1ULA -22414	D0104S1ULA -22450	D0108S1ULA -22452	D0116S1ULA -22454	D0104S1UIA -22470	D0108S1UIA -22472	D0116S1UIA -22474
Size	4-way	8-way	16-way	4-way	8-way	16-way	4-way	8-way	16-way
Frequency	850 - 2450 MHz (Extended L-band)						5 - 1000 MHz (IF)		
Dual redundant amplifiers (OPT-R)	Optional - standard model is supplied with a single amplifier								
LNB Power	0/13/18V with 22 kHz tone switchable on/off								
10MHz Pass	x	x	x	✓	✓	✓	x	x	x
DC pass (OPT-D)	x	x	x	x	Optional	x	x	x	x
Flatness (full Band)	± 0.8 dB								
Isolation (O/P-O/P)	24 dB minimum	24 dB minimum	24 dB minimum	24 dB minimum	24 dB minimum	24 dB minimum	20 dB minimum (@70MHz)	20 dB minimum (@70MHz)	20 dB minimum (@70MHz)
Gain	0 ± 1.0 dB								
1 dB Gain Compression Point	+5 dBm	0 dBm	0 dBm	0 dBm	0 dBm	0 dBm	0 dBm	0 dBm	0 dBm
Noise Figure	10 dB								
Input Return Loss	20 dB typical								
Output Return Loss	21 dB typical								

## Single Combiners

RF SPECIFICATIONS									
Model	C0401S1ULA -22418	C0801S1ULA -22420	C1601S1ULA -22422	C0401S1ULA -22455	C0801S1ULA -22457	C1601S1ULA -22459	C0401S1UIA -22475	C0801S1UIA -22477	C1601S1UIA -22479
Size	4-way	8-way	16-way	4-way	8-way	16-way	4-way	8-way	16-way
Frequency	850 - 2450 MHz (Extended L-band)						5 - 1000 MHz (IF)		
Dual redundant amplifiers (OPT-R)	Optional - standard model is supplied with a single amplifier								
10MHz Pass	x	x	x	✓	✓	✓	x	x	x
DC pass	x	x	x	x	✓	x	x	x	x
Flatness (full Band)	± 0.8 dB								
Isolation (O/P-O/P)	24 dB minimum	24 dB minimum	24 dB minimum	24 dB minimum	24 dB minimum	24 dB minimum	20 dB minimum (@70MHz)	20 dB minimum (@70MHz)	20 dB minimum (@70MHz)
Gain	0 ± 1.0 dB								
1 dB Gain Compression Point	+10 dBm								
Noise Figure	24 dB								
Input Return Loss	21 dB typical								
Output Return Loss	20 dB typical								

The specifications above are based on 50Ω SMA connectors. Specifications may vary for other impedances and connector types.





## Dextra Splitters & Combiners

### Dual Splitters

RF SPECIFICATIONS						
Model	D0104D1ULA -22411	D0108D1ULA -22413	D0104D1ULA-22451	D0108D1ULA-22453	D0104D1UIA-22471	D0108D1UIA-22473
Size	4-way	8-way	4-way	8-way	4-way	8-way
Frequency	850 - 2450 MHz (Extended L-band)				5 - 1000 MHz (IF)	
Dual redundant amplifiers (OPT-R)	Optional - standard model is supplied with a single amplifier					
LNB Power	0/13/18V with 22 kHz tone switchable on/off					
10MHz Pass	✗	✗	✓	✓	✗	✗
Flatness (full Band)	± 0.8 dB					
Isolation (O/P-O/P)	24 dB minimum	24 dB minimum	24 dB minimum	24 dB minimum	20 dB Minimum (@70MHz)	20 dB Minimum (@70MHz)
Gain	0 ± 1.0 dB					
1 dB Gain Compression Point	+5 dBm	0 dBm	+5 dBm	+5 dBm	0 dBm	0 dBm
Noise Figure	10 dB					
Input Return Loss	20 dB typical					
Output Return Loss	21 dB typical					

### Dual Combiners

RF SPECIFICATIONS						
Model	C0401D1ULA -22419	C0801D1ULA -22421	C0401D1ULA-22456	C0801D1ULA-22458	C0401D1UIA-22476	C0801D1UIA-22478
Size	4-way	8-way	16-way	4-way	8-way	16-way
Frequency	850 - 2450 MHz (Extended L-band)				5 - 1000 MHz (IF)	
Dual redundant amplifiers (OPT-R)	Optional - standard model is supplied with a single amplifier					
10MHz Pass	✗	✗	✓	✓	✗	✗
Flatness (full Band)	± 0.8 dB					
Isolation (O/P-O/P)	24 dB minimum	24 dB minimum	24 dB minimum	24 dB minimum	20 dB Minimum (@70MHz)	20 dB Minimum (@70MHz)
Gain	0 ± 1.0 dB					
1 dB Gain Compression Point	+10 dBm					
Noise Figure	18 dB	22 dB	24 dB	24 dB	24 dB	24 dB
Input Return Loss	21 dB typical					
Output Return Loss	20 dB typical					

The specifications above are based on 50Ω SMA connectors. Specifications may vary for other impedances and connector types.

SPLITTER & COMBINER





## Hybrid Splitters & Combiners

Dextra hybrid units contain one splitter and one combiner module in a compact 1U high 19" rack mountable shelf.

RF SPECIFICATIONS				
Model	H0104D1ULA-22430	H0108D1ULA-22431	H0104D1ULA-22460	H0108D1ULA-22461
Size	4-way	8-way	4-way	8-way
Frequency	850 - 2450 MHz (Extended L-band)			
Dual redundant amplifiers (OPT-R)	Optional - standard model is supplied with a single amplifier			
LNB Power	0/13/18V with 22 kHz tone switchable on/off (on splitter only)			
10MHz Pass	✗	✗	✓	✓
DC pass (OPT-D)	✗	✗	Optional	Optional
Flatness (full Band)	± 0.8 dB			
Isolation (O/P-O/P)	850-2250 MHz	28 dB typical		
	2250-2450 MHz	28 dB typical		
Gain	0 ± 1.0 dB			
1 dB Gain Compression Point	Splitter	0 dBm		
	Combiner	+10 dBm		
Noise Figure	Splitter	10 dB typical		
	Combiner	22 dB typical		
Input Return Loss	Splitter	20 dB typical		
	Combiner	21 dB typical		
Output Return Loss	Splitter	21 dB typical		
	Combiner	20 dB typical		

The specifications above are based on 50Ω SMA connectors. Specifications may vary for other impedances and connector types.