



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.



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	D0116S1UIA - 22474	
Size	4-way	8-way	16-way	4-way	8-way	16-way	16-way	
Frequency	850 - 2450 MHz (Extended L-band)						50 - 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	
DC pass (OPT-D)	x	x	x	x	Optional	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)	
Gain	0 ± 1.0 dB							
1 dB Gain Compression Point	+5 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	C1601S1UIA - 22479	
Size	4-way	8-way	16-way	4-way	8-way	16-way	16-way	
Frequency	850 - 2450 MHz (Extended L-band)						50 - 1000 MHz (IF)	
Dual redundant amplifiers (OPT-R)	Optional - standard model is supplied with a single amplifier							
10MHz Pass	x	x	x	✓	✓	✓	x	
DC pass	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)	
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.



Dual Splitters

RF SPECIFICATIONS					
Model	D0104D1ULA -22411	D0108D1ULA -22413	D0104D1ULA-22451	D0108D1ULA-22453	D0108D1UIA-22473
Size	4-way	8-way	4-way	8-way	8-way
Frequency	850 - 2450 MHz (Extended L-band)				50 - 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)
Gain	0 ± 1.0 dB				
1 dB Gain Compression Point	+5 dBm	0 dBm	+5 dBm	+5 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
Size	4-way	8-way	4-way	8-way	4-way
Frequency	850 - 2450 MHz (Extended L-band)				50 - 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)
Gain	0 ± 1.0 dB				
1 dB Gain Compression Point	+10 dBm				
Noise Figure	18 dB	22 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.



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.