

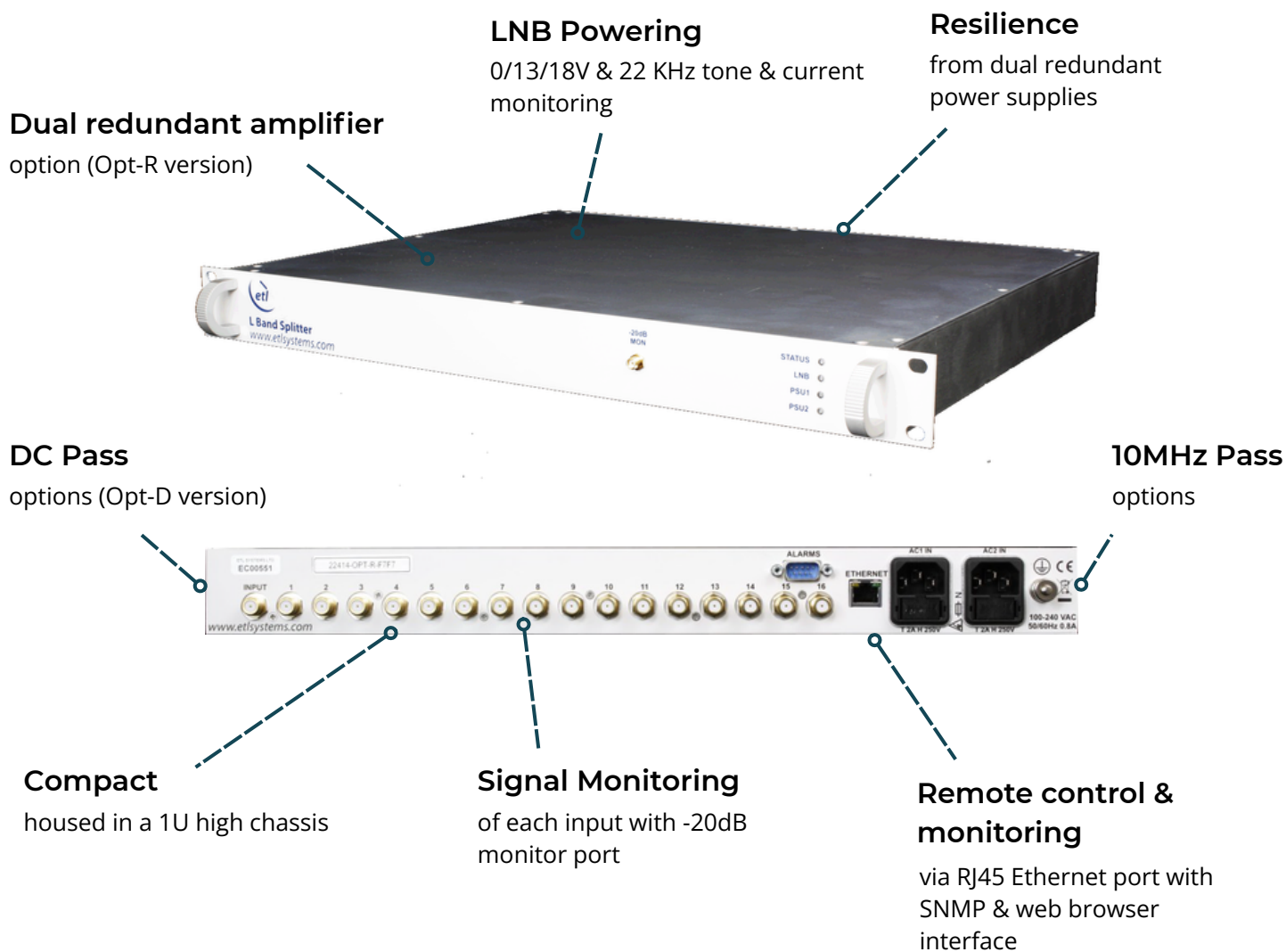
Dextra Splitters & Combiners

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

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.



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)
Amplifiers	Optional dual redundant amplifiers (OPT-R). 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)
Amplifiers	Optional dual redundant amplifiers (OPT-R). 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	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)
Amplifiers	Optional dual redundant amplifiers (OPT-R). 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
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)
Amplifiers	Optional dual redundant amplifiers (OPT-R). 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
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	H0108D1ULA-22431	H0104D1ULA-22460	H0108D1ULA-22461
Size	8-way	4-way	8-way
Frequency	850 - 2450 MHz (Extended L-band)		
Amplifiers	Optional dual redundant amplifiers (OPT-R). Standard model is supplied with a single amplifier.		
LNB Power	0/13/18V with 22 kHz tone switchable on/off		
10MHz Pass	x	✓	✓
DC pass (OPT-D)	x	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	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.