

Typical applications:Satellite operators, VSAT,

High resilience RF

required

space

teleports and broadcasters

distribution where optimum satellite signal quality is

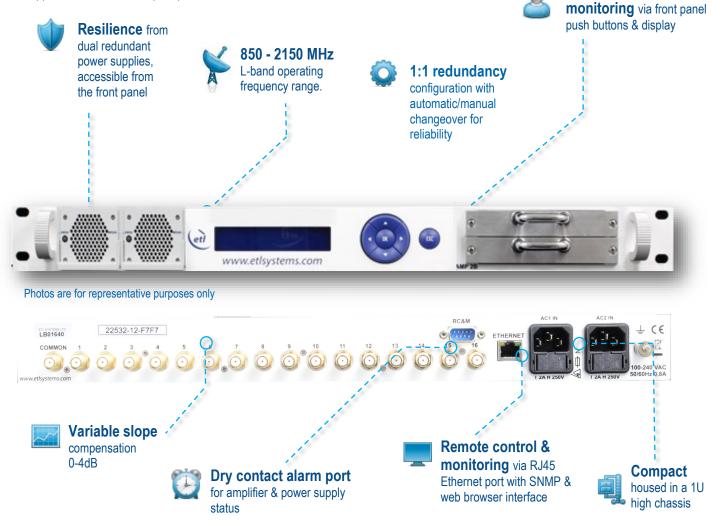
• Teleports with limited rack

Local control &

16 way L-band Combiner With single output and hot swap, front mounted dual redundant amplifiers

Model C1601S1ULA-22532-12 is a 16 input / 1 output active Combiner, with hot swap front mounted amplifiers and PSUs in a 1:1 redundancy configuration with automatic/manual changeover. The 16-way L-band Combiner also offers gain and slope control. The range is also available with a choice of amplifiers offering low noise to high linearity options.

Unit supplied with modules, as per specification table.





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Model Number: C1601S1ULA-22532-12-XXXX

Technical specifications and operating parameters

RF Parameters							
Capacity		16 way combiner		Single output			
Frequency Range		850-2150 MHz (L-band)					
Gain (dB)	Maximum	27 ± 2					
	Minimum	-2 ± 2					
Slope range (dB)		0 to 4					
Slope settings (dB)		1±0.25 dB		Mean slope			
RF Connectors		50Ω SMA	50Ω BNC	75Ω BNC	75Ω F-type		
Gain Flatness	Full band	±1.50 dB	±1.50 dB	±1.50 dB	±1.50 dB		
	Any 36MHz	±0.25 dB	±0.25 dB	±0.5 dB	±0.5 dB		
Input Return Loss	Typical	18 dB	18 dB	12 dB	12 dB		
	Minimum	14 dB	14 dB	8 dB	8 dB		
Output Return Loss	Typical	18 dB	18 dB	12 dB	12 dB		
	Minimum	14 dB	14 dB	8 dB	8 dB		
Isolation (dB)		>22 between RF ports					
Noise Figure	Typical	28 dB		At max gain setting. Any 1 input port routed to output, all other ports terminated.			
	Max	30 dB					
1dB GCP (dBm)	Typical	16					
	Minimum	14					
OIP3 (dBm)		≥ +33		At max gain and 0dB slope setting			
OIP2 (dBm)	Typical	+45		-			
	Minimum	+43					
Max Input Level		+30 dBm					
In band, signal independent spurii		Min Gain < -85dBm Max Gain < -65dBm					

Environmental						
Operating temperature	0 to 55°C					
Location	Indoor use only					
Storage temperature	-20°C to +75°C					
Humidity	85% non-condensing					
Altitude	10,000 feet AMSL. Above Mean Sea Level					
Power						
PSU Power	85-264Vac 50-60Hz	Fused 2A				
AC Consumption	<50W	Max. consumption at steady state				
LNB Power	None					
PSU	Dual redundant	Dual IEC inlet				
Hot-swap PSU	Yes					
RF Monitoring	None					
System Control						
Local Control	Via Front Panel LCD and push buttons					
Remote Control	Via RJ45 Ethernet port 10BaseT/100BaseTx. TCP/IP, SNMP & Web browser interface.					
Alarms	Dry contact, change-over via 9-way D-type on summary alarm. Ethernet (RJ45) for PSU & Amp. status					
Physical						
Dimensions	mensions 1U high x 550mm deep x 19" wide					
Weight	4.5 kg					
Colour	RAL9003— White (Semi-Matte)					

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy. Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.

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