

## 8-way L-band Hybrid Splitter & Combiner with LNB Powering, BUC Powering & 10MHz Source



Teleports with limited rack
space





Remote control & monitoring via RJ45 Ethernet port with SNMP



DIL Switch

on the rear panel is used to select the BUC voltage and also the internal or external 10 MHz reference source



Dry contact & Ethernet alarm port for PSU & Amp status



Excelling in RF Engineering

Technical specifications and operating parameters

				RF I	Param	eters							
Frequency Range	850-2150 MHz (L-band)												
	RX Side								TX Side				
RF Connectors	50Ω SMA	50Ω N-type	50Ω BNC	75Ω BNC	750	2 F-type	50Ω SMA	50Ω	N-type	50Ω BNC	75Ω BNC	75Ω F-type	
Capacity		1	8-way Splitt	er					8-way	Combiner (1 in )	( 8 out)		
Amplifier Redundancy	1-to-1 redundant Wit						t With current monitoring & auto-switchover						
Gain (dB)	0±2	0±2	0±2	0±2		0±2	0±2		0±2	0±2	0±2	0±2	
Gain Flatness (dB)	±1	±1	±2	±2		±2	±2		±2	±2	±2	±2	
Input return loss (dB)	15	15	12	12		10	18		18	12	12	10	
	10	10	10	10		7	14		14	10	10	10	
Output return loss	20	20	12	12		10	15		15	12	12	10	
	14	14	10	10		10	10		10	10	10	7	
Isolation (typical)	22 dB							22dB					
1 dB Compression Point	+ 2 dBm						+ 7 dBm						
Noise Figure	16.5 dB						20 dB						
LNB / BUC Power	18V DC, 500 ma via common (RF in) port . (Can be switched on and off from the rear)						24V DC, 3.2	24V DC, 3.2A via common (RF out) port. (Can be switched on and off from the rear)					
10MHz Reference Source	Internal / external (via BNC on rear panel)												
				10 N	/Hz So	ource							
Internal reference	10MHz Sine Wave							Ovenised Crystal Oscillator					
10 MHz Accuracy	Factory set to 0.1 ppm												
10 MHz Output Level	0.5 dBm ± 2.5 dBm								Fundamental frequency (10MHz) with all unused ports terminated into a matched load.				
Frequency Stability Over Temp.	±1x10 <sup>8</sup>								0 to +55°C				
Reference Source Ageing	±5x10 <sup>-8</sup> /year ±5x10 <sup>-10</sup> /day												
Reference Source Phase Noise	<-85dBc/Hz @ 1Hz <-140dBc/Hz @ 100Hz <-115dBc/Hz @ 10Hz @ 100Hz <-155dBc/Hz @ 1000Hz <-155dBc/Hz @ 1000Hz <-155dBc/Hz @ 10000Hz <-155dBc/Hz @ 1000Hz <-155dBc/Hz <-1556Bc/Hz <-155dBc/H												
Warm Up Time	< 2 minutes At 25°C to within <±1x10-7												
10 MHz Reference Source	U-links on rear panel to select internal / external. The 10 MHz reference is injected onto the common L- band port. Source can be de-powered from switch on rear panel. 2x 50 ohm BNCs on rear panel for 10 MHz external IN and internal OUT, with a U-link supplied. There is no 10 MHz injection if the U-link is removed and the port is termin (i.e. no external source supplied).								external IN and is no 10 MHz port is terminated				
Harmonic & Spurii Levels	-60 dBc typical, -50 dBc worst case								With respect to 10MHz harmonics (non related spuril levels <-80 dBm max)				
	Environ	mental							Systen	n Control			
Operating temperature	0 to 55°C				Alarms			Dry contact &	Ethernet		Via D-type and RJ45 for PSU & Amp status		
Location	Indoor use only					Monitoring		F	Power on, Amplifier current & PSU Power or		Power on and tri-status		
Storage temperature	-20°C to +75°C				wonitoring			monitoring LEDs on front panel					
Humidity	85% non-con	densing	Relative H	lumidity		Remote Int	terface	E	Ethernet 10 BaseT & serial				
Altitude	10,000 feet A	MSL	Above Me	an Sea Level									

Physical					
Impedance and Connectors	$50\Omega$ SMA, $50\Omega$ BNC or N-Type, $75\Omega$ BNC or $75\Omega$ F-type. All DC Blocked				
Dimensions	3U high x 450mm deep x 19" wide				
Weight	14 kg (TBC)				
Colour	White 00-E-55 semi-gloss				



Esatcom Inc. www.esatcom.com Tel: 718.276.0800 Email: sales@esatcom.com

Power Single power supply and mains inlet (with on/off switch built into the inlet) Power Supply 85-264Vac 50/60Hz

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









