

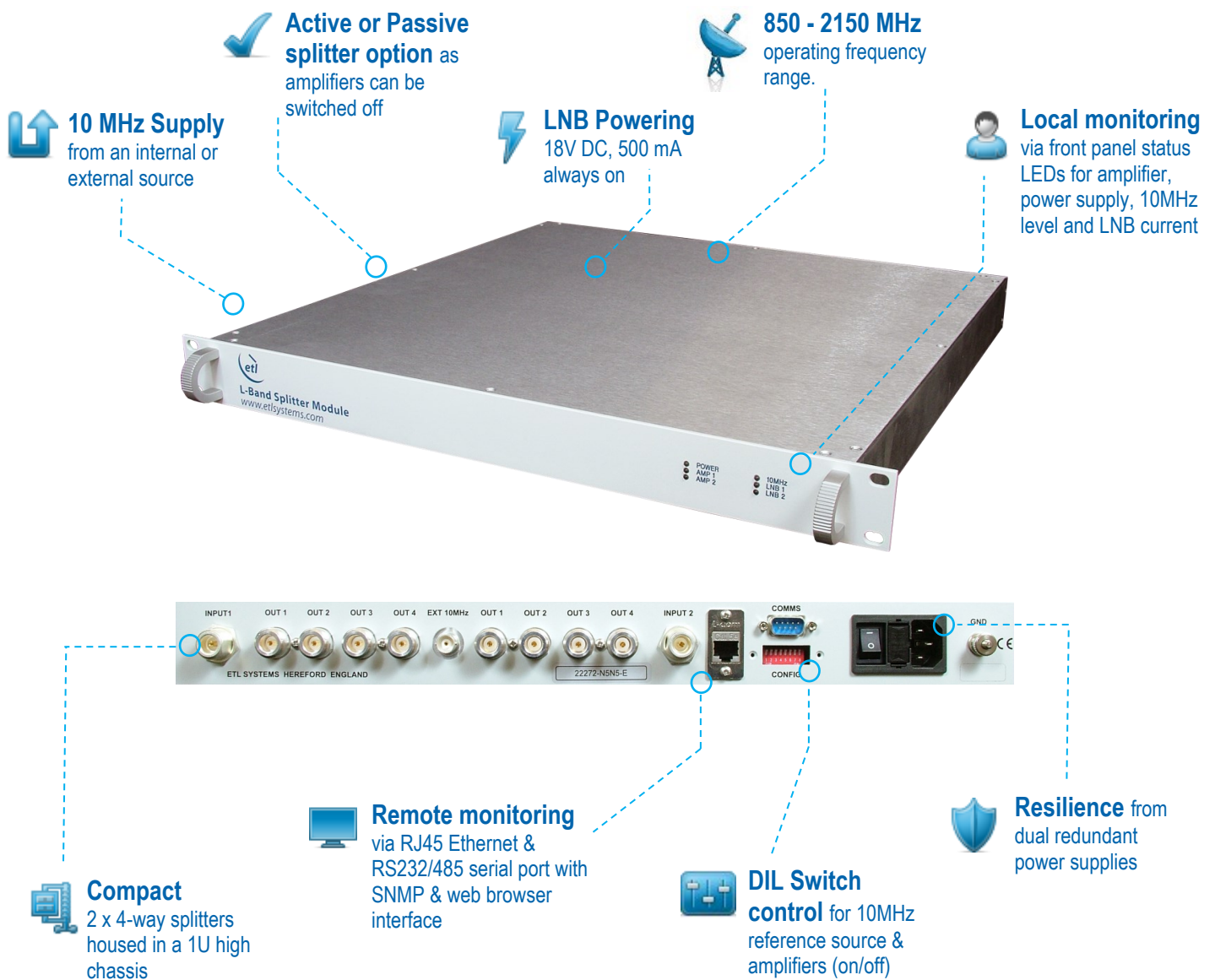


Dual 4-way L-band Splitter

with 18V LNB powering, internal/
external 10MHz supply, serial &
Ethernet remote control & monitoring

Typical applications:

- Satellite operators, VSAT, teleports, and broadcasters
- IPTV & DTH headend content distribution
- RF distribution, and optimum satellite signal quality





Technical specifications and operating parameters

RF Parameters			
Frequency Range		850-2150 MHz (L-band)	
Insertion Gain	Passive	-9 dB ± 1 dB	Nominal
	Active	2 dB ± 2 dB	
Flatness over 850-2150 MHz	Passive	± 1 dB	
	Active	± 1 dB	
Return Loss		12 dB typical	In & out
1 dB Compression Point		+ 10 dBm	
Isolation	Passive	20 dB	Minimum between any 2 output ports
	Active	18 dB	
Noise Figure		15 dB	
10 MHz External Supply			
RF Ports		50Ω , BNC	
Insertion Loss		10 ± 2 dB	
Return Loss		> 10 dB	
10 MHz Internal Supply (Ovenised crystal oscillator)			
Frequency		10 MHz	
10 MHz level		-5 ± 3.5 dBm	All RF ports connected into 50 Ω system
Harmonics	2nd Harmonic	-50 dBc	
	3rd Harmonic	-60 dBc	
Warm up time		2 minutes	Warm up time at 25°C to < ± 1 x 10 ⁻⁷
Frequency stability	Over temperature	< ± 3x 10 ⁻⁸	
	Over time/ year	< ± 5x 10 ⁻⁸	
	Short term stability/sec	< ± 1x 10 ⁻¹¹	
Stability over temperature		± 3x 10 ⁻⁸	Over 0-50°C
Aging	Per day	< ± 2x 10 ⁻⁹	
	Per year	< ± 5x 10 ⁻⁷	
Phase Noise		< 85 dBc/Hz @ 1 Hz	
		< 115 dBc/Hz @ 10 Hz	
		< 140 dBc/Hz @ 100 Hz	
		< 150 dBc/Hz @ 1000 Hz	
		< 155 dBc/Hz @ 10000 Hz	

Environmental	
Operating temperature	0 to 50°C
Location	Indoor use only
Storage temperature	-30°C to +70°C
Humidity	85% non-condensing

Power		
PSU Power	85-264Vac 50-60Hz	
PSU	Dual redundant	Single mains inlet
Hot-swap PSU	No	
AC Consumption	35W	Max. consumption at steady state
LNB Power	18V DC, 500 mA via common (RF in) port	Always on

System Control	
Local Control	Via rear panel DIL Switch for 10MHz supply and amplifiers (on/off)
Local Monitoring	Via front panel status LEDs
Remote Control	Via RS232/485 serial port and RJ45 Ethernet port for 10MHz signal threshold
Remote Monitoring	Via RS232/485 serial port and RJ45 Ethernet port 10/100 Base T. TCP/IP, SNMP & Web browser interface.
Alarms	Via serial (RS232/482) & Ethernet (RJ45) for LNB current, 10 MHz level, PSU & Amplifier status

Physical	
Input & output RF connector	N-type
Input & output impedance	50 Ω
Dimensions	1U high x 450mm deep x 19" wide
Weight	7 kg
Colour	White 00-E-55 semi-gloss

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.