



Dual input 32 way 10MHz Splitter

With individually controllable outputs

Typical applications:

- Satellite operators, VSAT, teleports and broadcasters
- High resilience RF distribution where single points of failure must be minimised
- Redundancy applications for remote satellite teleports



Resilience

From dual redundant amplifiers & power supplies



5-20 MHz
operating
frequency



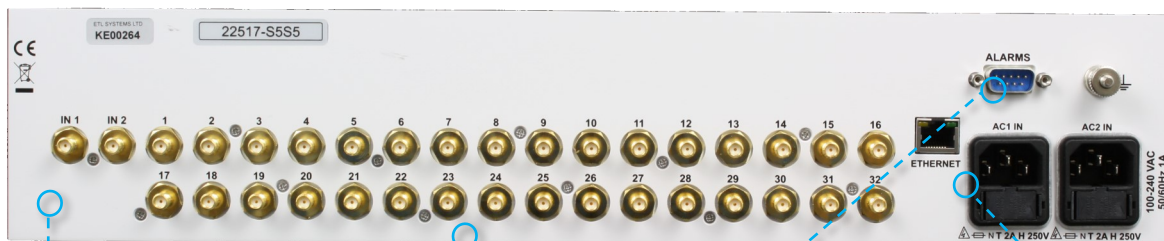
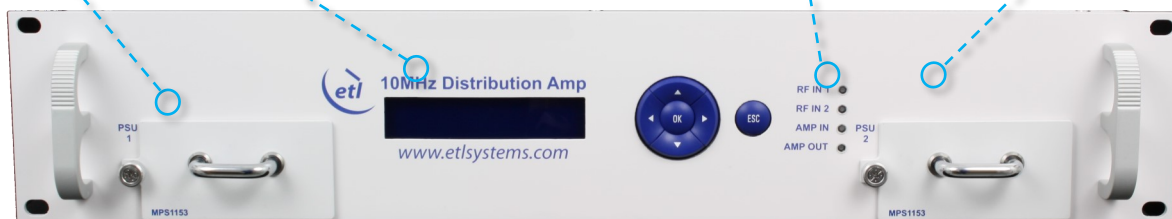
Compact

32-way splitter housed in a 2U high, 19" rack mountable shelf



RF Level Monitoring

Of all inputs and outputs—
with user selectable
thresholds and alarms



Dual input Switching
to either input is
automatically triggered
by RF monitoring on the
inputs



Variable gain to
balance input signals



**Dry contact alarm
port** for power supply
status



**Remote control &
monitoring** via RJ45
ethernet port with SNMP
& web browser interface





Technical specifications and operating parameters

Preliminary Specifications

RF Parameters			
Capacity		32-way	Dual input A or B input selectable or Auto mode based on input level monitoring
Frequency Range		5-20 MHz	
RF Connectors		50Ω SMA	
Gain adjustment range (dB) (Software selectable)		Low Gain Mode: -10 to 0dB in 1dB steps	Individually adjustable per output
		High Gain Mode: -2 to +8dB in 1dB steps	
Gain flatness full band		±0.25 dB	
Output Return Loss	Typical	20 dB	
	Maximum	16 dB	
Input Return Loss	Typical	20 dB	
	Maximum	16 dB	
Amplifier option		Dual redundant amplifier INPUT AMP CCT ONLY Hot standby, 1:1 redundancy with auto switch-over based on amplifier current monitoring.	
Isolation		>85 dB	Between any RF ports
Max input & Output Level		+15 dBm	
Additive SSB Phase Noise		1Hz -135dBc 10Hz -145dBc 100Hz -155dBc 1kHz -161dBc 10kHz+ -162dBc 100kHz -163dBc	At +15dBm Output @ unity gain
Spurious signals		< -80dBc	
Harmonics		-40dBc typical at 10MHz	

Environmental		
Operating temperature	0 to 50°C	
Location	Indoor use only	
Storage temperature	-20°C to +75°C	
Humidity	85% non-condensing	Relative humidity
Altitude	10,000 ft AMSL	Above Mean Sea Level

Power		
AC Power	<50W	At steady state
BUC Power	None	
PSU	85-264Vac 50/60Hz	Fused 2A
Hot-swap PSU	Dual redundant PSUs	Dual IEC INLET

System Control		
Monitoring	Input and outputs RF presence. Amplifier status. PSUs.	Controlled by Ethernet
Alarms	Dry contact, change-over via 9-way D-type. Available alarms are: PSU, amp, and signal status. Full status and alarms are also available via the Ethernet interface.	
Control & Display	LCD & Keypad	Front panel
Communication	RJ45 port with 10baseT/100baseTX Ethernet offering web browser access, SNMP, and ETL Proprietary TCP Protocol	

Physical	
Dimensions	2U high x 450mm 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.