



ETL Systems
Excelling in RF Engineering

Model Number:
C2401S3ULA-22344-XXXX

24-way Single L-band Active Combiner

with dual redundant amplifiers

Typical applications:
- Satellite operators, VSAT, teleports, and broadcasters
- High resilience RF distribution, and optimum satellite signal quality



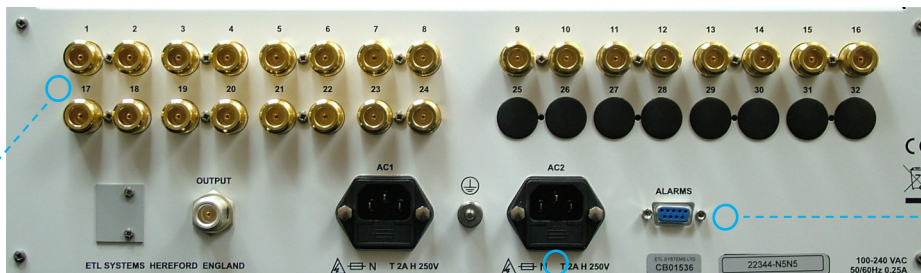
850 - 2150 MHz
operating frequency range.



Reliability from
dual redundant
amplifiers



Local monitoring
via front panel status
LEDs for power & PSU



24 Incoming feeds
combining in to 1 output



Resilience
from dual
redundant
power supplies



Dry contact alarm port
for power supply status





Technical specifications and operating parameters

RF Parameters						
Capacity		24-way				
Frequency Range		850-2150 MHz (L-band)				
RF Connectors		75Ω F-type	75Ω BNC	50Ω BNC	50Ω SMA	50Ω N-Type
DC Block		Yes	Yes	Yes	Yes	Yes
Flatness		±2.2 dB	±2.2 dB	±1.7 dB	±1.7 dB	±1.7 dB
Input Return Loss	Typical	12 dB	12 dB	15 dB	15 dB	15 dB
	Minimum	8 dB	8 dB	10 dB	10 dB	10 dB
Output Return Loss	Typical	12 dB	12 dB	15 dB	18 dB	18 dB
	Minimum	8 dB	8 dB	10 dB	10 dB	10 dB
Gain		0± 2 dB Nominal, mean across band				
Amplifier Redundancy		Dual redundant amplifier, cold standby, 1:1 redundancy with auto switch-over based on amplifier current monitoring				
Isolation		21 dB Between any 2 output ports Typical				
1 dB Compression		10 dBm Typical output power				
Noise Figure		21 dB Typical				

Power		
Input RF Power	+16 dBm Absolute Maximum	
AC Power	100-240 Vac 50/60 Hz	Fused 2A
PSU Redundancy	Dual redundant	Dual IEC inlet
LNB Power	No	

System Control	
Display	Front panel PSU status LEDs
Alarms	Dry contact (D-type) for PSU failure

Environmental	
Operating temperature	0 to 45°C
Location	Indoor use only
Storage temperature	-20°C to +75°C
Humidity	85% non-condensing

Physical	
Dimensions	3U high x 350mm deep x 19" wide
Weight	10 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.