ETL Systems
Excelling in RF Engineering

Model Number: D0104D1UK1A-22407-S5S5

Dual 4-way Variable Gain –15 to 0dB Ku-band Active Splitter

Typical applications:

- Satellite operators, VSAT, teleports and broadcasters.
- IPTV and DTH headend content distribution.
- High resilience RF distribution where optimum satellite signal quality is required.
- Redundancy applications for remote control satellite teleports.
- SNG and outside broadcast trucks.

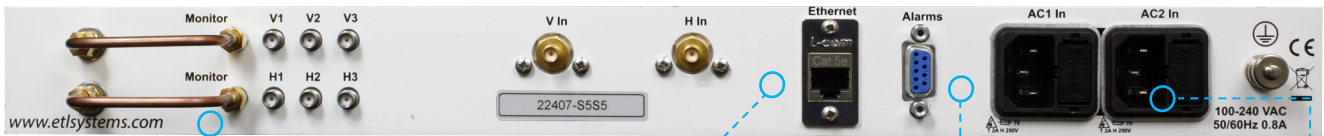**10.70 - 12.75 GHz** operating frequency range.

Local control & monitoring via front panel push buttons & display

Compact housed in a 1U high chassis

Signal monitoring optional via the 4th output port on the front or rear panel

Distribution Amplifier
www.etlsystems.com

Variable gain to balance input signals

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

Dry contact alarm port for power supply status

Resilience from dual redundant power supplies

Technical specifications and operating parameters

RF Parameters		
Capacity	2 off 4-way active splitters	
Frequency Range	10.70 to 12.75 GHz (Ku-band)	
Gain — Minimum	-15 ± 2 dB	
Gain — Maximum	0 ± 2 dB	
Gain Control — Minimum	15 dB minimum range	1 dB monotonic step size
Gain Control — Maximum	1 ± 0.25 dB steps	1 dB monotonic step size
Gain Flatness	± 1.8 dB	
Input Return Loss	15 dB typical	10dB Worst case
Output Return Loss	15 dB typical	10dB Worst Case
Noise Figure	9 dB typical, 11 dB maximum	At 0dB gain setting
Isolation	18 dB typical	Between any 2 output ports
1dB GCP	+ 5dBm minimum	
OIP3	+15 dBm minimum	Output 3rd order intercept point
MTBF	>150,000 hours	

Environmental	
Operating temperature	0 to 45˚C
Location	Indoor use only
Storage temperature	-20˚C to +75˚C
Humidity	20 to 90% non-condensing

Power		
PSU Power	85-264Vac 50-60Hz	Fused 2A
AC Consumption	10W	Total AC input
LNB Power	None	
PSU	Dual redundant	Diode OR. Dual IEC inlet.
Hot-swap PSU	No	

System Control		
Local Control & Monitoring	Via Front Panel LCD and push buttons	Temperature monitored for chassis & amplifiers. PSU status monitor & alarms. Amplifier DC voltage monitor. Amplifier gain control.
Remote Control & Monitoring	Via RJ45 Ethernet port, SNMP & Web browser	

Physical		
Input & output RF connector	SMA	All ports are DC blocked. Common ports and 3 off the output ports of each splitter are on the rear panel, 4th output port is on the front panel.
Input & output impedance	50Ω	
Dimensions	1U high x 350mm deep x 19" wide	
Weight	6 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.