



ETL Systems
Excelling in RF Engineering

Model Number:
D0116S1UIA-22248

16-way Single IF Active Splitter

With Dual Redundant Amplifiers

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 satellite teleports
- SNG and Outside Broadcast Trucks



Resilience
from dual
redundant
amplifiers &
power supplies



Monitoring via front panel
LEDs



20 - 200 MHz
operating frequency
range.



Dry contact alarm port
for amplifier & power supply
status



Compact
housed in a 1U
high chassis





Technical specifications and operating parameters

RF Parameters						
Capacity		16 way				
Frequency Range		20-200 MHz (IF)				
RF Connectors		50Ω SMA	50Ω N-type	50Ω BNC	75Ω BNC	75Ω F-type
Gain		0±2.0 dB				
Flatness	Full band	±1.0 dB	±1.0 dB	±1.0 dB	±1.5 dB	±1.5 dB
	Any 36MHz	±0.35 dB	±0.35 dB	±0.40 dB	±0.50 dB	±0.50 dB
Return Loss	Typical	16 dB	16 dB	14 dB	12 dB	12 dB
	Minimum	12 dB	12 dB	12 dB	10 dB	10 dB
Isolation	Typical	28 dB				
	Minimum	23 dB				
Amplifier option		Dual redundant amplifier, cold standby, 1:1 redundancy with auto switch -over based on amplifier current				
Noise Figure		12 dB				
Output 1 dB GCP		+3 dBm				
Input RF Power		+ 16 dBm			Absolute maximum	

Environmental		
Operating temperature	0 to 50°C	
Location	Indoor use only	
Storage temperature	-20°C to +75°C	
Humidity	85% non-condensing	
Power		
PSU Power	85-264Vac 50-60Hz	Fused 2A
AC Consumption	<10W	At steady state
LNB Power	None	
PSU	Dual redundant with dual IEC inlets	Diode OR. Not hot swap
Hot-swap PSU	No	
RF Monitoring	None	
System Control		
Display	Front Panel LEDs for PSU & amplifier status	
Alarms	Dry contact (D-type) alarms for PSUs and amplifier status	
Physical		
Dimensions	1U high x 200mm deep x 19" wide	
Weight	3 kg	
Colour	White 00-E-55 semi-gloss	

PRELIMINARY

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.