ETL Systems
Excelling in RF Engineering

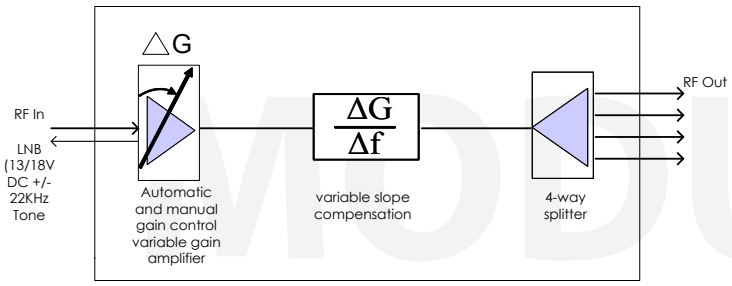
Model Number:
26128-DIV450-XXXX

4-way L-band Splitter with Automatic or Manual Gain Control & LNB Powering for 26128 modular system chassis

ETL's model 26128 Modular System offers total flexibility in managing L-band signals. The modular design comprises a chassis with 16 RF slots, two hot swap dual redundant PSUs, and one CPU. Each chassis can hold up to 16 RF modules, which can be hot swapped or hot expanded. This provides excellent resilience and scaleability.

Typical applications:
- High resilience RF distribution
- Satellite operators, VSAT, teleports & broadcasters

Splitter Modules



850 - 2150 MHz operating frequency range

LNB Powering 0/13/18V & 22kHz tone

RF detection for monitoring signal levels (manual gain mode only)

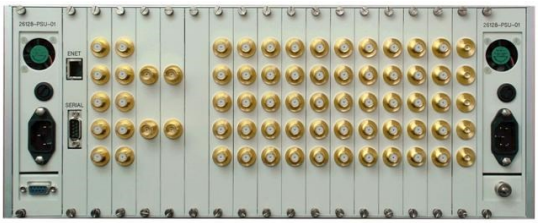
Automatic or Manual Gain Control
AGC mode - output level can be selected and fixed

Variable gain & slope compensation to balance input signals

Chassis

Compact chassis which can house up to 16 splitter modules

Resilience from dual redundant hot -swap power supplies, hot-swap splitter modules & hot-swap CPU



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

Local control & monitoring via LEDs on modules

Dry contact alarm port & serial communications for power supply status

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Technical specifications and operating parameters

Splitter Module - Technical specifications and operating parameters					
Function		4-way splitter			
Module Slots Used		1			
Frequency Range		850-2150 MHz		Reduced performance up to 2450	
Mode of operation		AGC (automatic gain control) or MGC (manual gain control)		User selectable. AGC gives fixed output levels; MGC gives constant gain.	
Impedance & RF Connectors		50Ω SMA	50Ω BNC	75Ω BNC	75Ω F-type
Input Return Loss	Typical	18 dB	18 dB	12 dB	12 dB
	Minimum	14 dB	14 dB	10 dB	10 dB
Output Return Loss	Typical	18 dB	18 dB	12 dB	12 dB
	Minimum	14 dB	14 dB	10 dB	10 dB
Frequency Slope		0 - 12 dB in 2 dB steps (over 850-2150 MHz)			
AGC Mode (Fixed output level mode)					
Output Power Levels		-15±1.5 to -5±1.5 dBm		User selectable in 1 dB steps	
Output Power Steps		1 dB			
Output Power Setting Accuracy		± 1 dB			
Input Power Range		-45 to -15 dBm			
Settling Time		10 msec typical			
Manual Gain Control					
Gain	Minimum	1 ± 2 dB			
	Maximum	28 ± 2 dB			
Gain steps		1 ± 0.25 dB		Digitally controlled	
1dB GCP	Typical	2 dBm		Maximum gain & 0 dB slope setting	
	Minimum	-2 dBm			
OIP3	Typical	15 dBm		Maximum gain & 0 dB slope setting	
	Minimum	10 dBm			
Input RF power		16 dBm Absolute Maximum			
Isolation	Any 2 o/p ports	18 dB typical, 12 dB minimum		Between any 2 output ports	
	Intercard O/P ports	60 dB typical		Between any RF cards set to same gain level	
	Intercard I/P ports	60 dB typical			
Noise Figure	Typical	13 dB		0 dB slope setting	
	Maximum	16 dB			
RF Detection		-50 to -10 dBm		Typical (Manual Gain Operation mode only)	
LNB Powering		0/13/18Vdc with 22kHz select		450mA per channel available but total LNB power per chassis is limited to approximately 100W depending on other modules fitted.	
Local Control & Monitor		Push button & display, accessible via front door (on module)			
Weight		0.75 Kg max per card			

Chassis Specifications	
Capacity	16 splitter modules
Dimensions	4U high x 450mm deep x 19" wide
Weight	20 kg (fully populated)
Colour	White 00-E-55 semi-gloss (Front & Rear panels)
AC Power	85-264V AC (50/60Hz)
PSU	Dual redundant, hot-swap
Remote Control & Monitor	Via CPU as fitted, see chassis specifications
MTBF	>250,000hrs

Environmental Conditions	
Temperature	Operating: 0 to 45˚C Storage: -20˚C to +75˚C
Location	Indoor use only
Humidity	20 to 90% non-condensing
Altitude	10,000 feet AMSL (above mean sea level)

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.

Preliminary Specifications

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