



Model Number: 26128-DIV807-B5B5

RF Engineering and Custom Build

8-way L-band splitter with variable gain, variable slope & LNB powering

for ETL 26128 Modular System

RF Module 26128-DIV807: L-band variable gain and variable slope compensation 8-way splitter with (13/18V and 22KHz tone option) LNB powering and LNB current monitoring. The RF modules are fully hot swappable.

Key Features

Function: 8-way Splitter

Gain: Variable (range of 0-24dB)

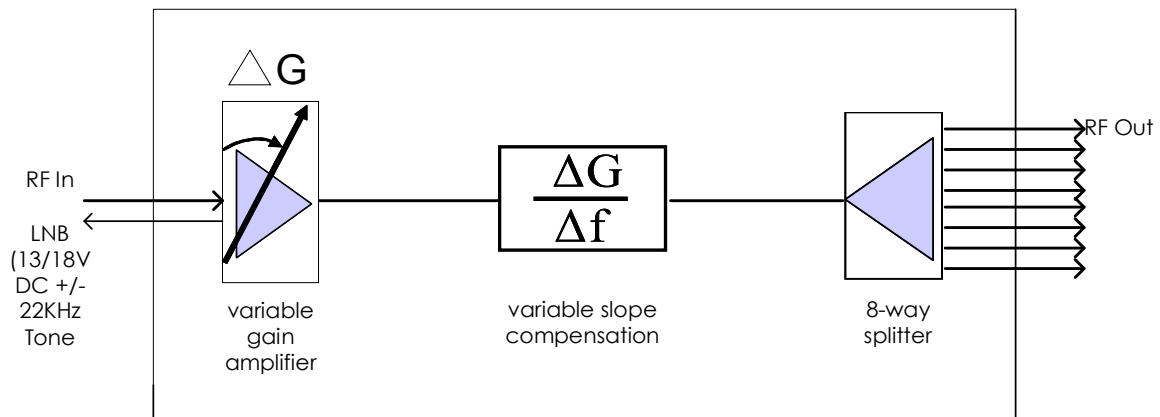
Slope Compensation: Variable

LNB Power: 13/18V 22KHz Tone

Slots: 2 (8 per chassis)

Other: LNB current monitoring; local & remote control

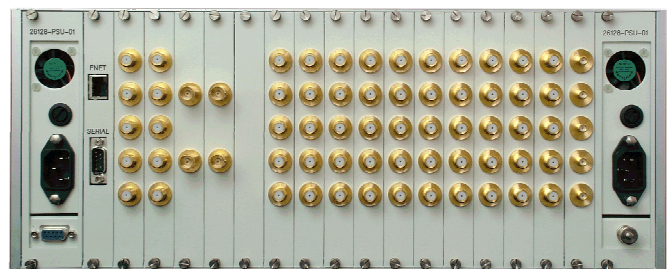
Application Notes: RF Distribution, low-cost high redundancy application



26128-DIV807 RF Module schematic block diagram



Front view showing hot-swap RF Module



Rear view of chassis

Overview: ETL's model 26128 Modular System offers total flexibility in managing L-band signals. The modular design comprises a chassis with 8 RF slots, two hot swap dual redundant PSUs, and one CPU. Each chassis can hold up to 8 RF modules, which can be hot swapped or hot expanded. This provides excellent resilience and scale ability.





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LNB powering for Model 26128 Modular System

Technical specifications and operating parameters

RF Parameters			
Capacity		8- way	
Module Slots Used		2	
Frequency Range		850-2150 MHz (L-band)	
Gain	Min Gain	0 dB \pm 2.0 dB	Variable, digitally controlled. Step size 1 dB, range 24 dB
	Max Gain	24 dB \pm 2.0 dB	
	Gain Steps	1 dB \pm 0.25 dB	
	Dynamic Range	24 dB	
Frequency Slope		0 dB, +2 dB, +4 dB, and + 6dB	
Flatness		\pm 2.0 dB	(at 0 dB slope selection)
Gain vs. frequency slope		0 dB nominal Fixed	
1 dB GCP	At 0 dB gain setting	0 dBm	Output Power
	At 14 dB gain setting	2 dBm	
	At 28 dB gain setting	5 dBm	
Noise Figure	At 0 dB gain setting	12 dB	
	At 14 dB gain setting	18 dB	
	At 28 dB gain setting	30 dB	
Input Return Loss		12 dB typical	
Output Return Loss		12 dB typical	

Power	
LNB Power	0/13/18V with 22kHz select, 450mA per channel available. Total LNB power per chassis is limited to approximately 100W
Power Supply	Chassis is AC mains powered and provides 24V DC to each RF module (see chassis specifications)

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

Chassis Specifications	
Input Connector	BNC
Input Impedance	50 Ω
Output Connector	BNC
Output Impedance	50 Ω
Dimensions	4U high x 450mm deep x 19"
Weight	20 kg (fully populated)
Colour	White 00-E-55 semi-gloss (Front panel)
AC Power	85-264V AC (50/60Hz)
PSU	Dual redundant, hot-swap

System Control	
Local Control & Monitor	Push button & display, accessible
Remote Control & Monitor	Via CPU as fitted, see chassis

Key Features	
LNB power and 22 KHz Tone	
Variable Gain	
Variable Slope Compensation	

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