



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

for ETL 26128 Modular System

RF Module 26128-DIV407: L-band variable gain and variable slope compensation 4-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: 4-way Splitter

Gain: Variable (range of 0-28dB)

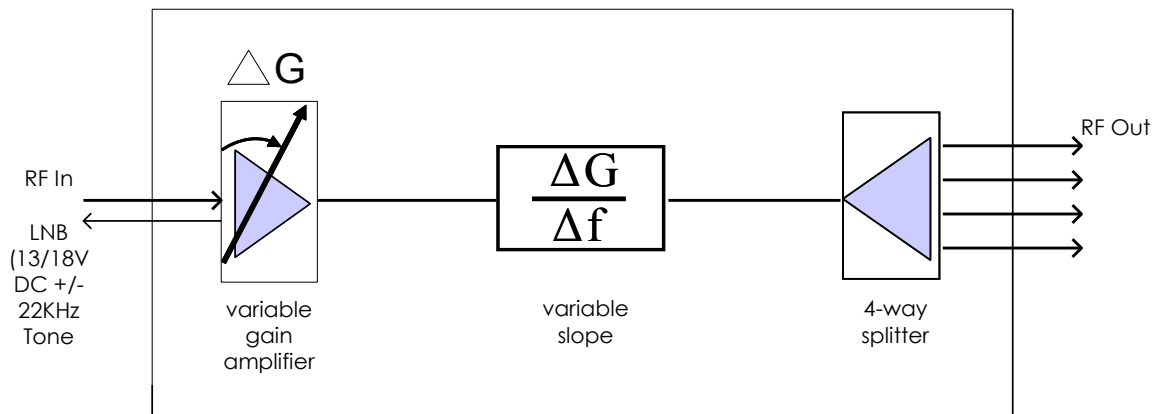
Slope Compensation: Variable

LNB Power: 13/18V 22KHz Tone

Slots: 1 (16 per chassis)

Other: LNB current monitoring; local & remote control

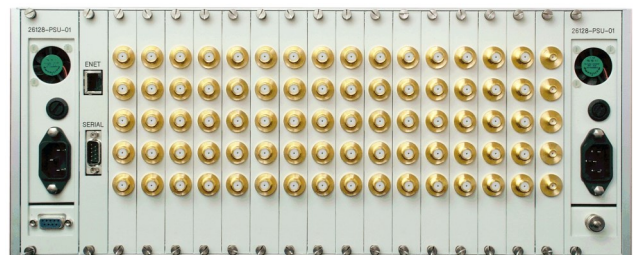
Application Notes: RF Distribution, low-cost high redundancy application



26128-DIV407 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 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 scale ability.





Model Number: 26128-DIV407-xxxx

RF Engineering
and Custom Build

4-way L-band variable gain, variable slope splitter with
LNB powering for Model 26128 Modular System

Technical specifications and operating parameters

RF Parameters					
Capacity		4 way splitter	Up to 16x DIV407 cards can be fitted into 26128 chassis.		
Frequency Range		850-2150 MHz (L-band)			
Connector & impedances		50Ω SMA	50Ω BNC	75Ω BNC	75Ω F-type
Gain	Maximum	28 ± 2 dB	28 ± 2 dB	28 ± 2 dB	28 ± 2 dB
	Minimum	0 ± 2 dB	0 ± 2 dB	0 ± 2 dB	0 ± 2 dB
Gain Flatness At 0dB slope selection	850-2150MHz	± 1.0 dB	± 1.0 dB	± 2.5 dB	± 2.5 dB
	Any 36MHz	± 0.5 dB	± 0.5 dB	± 1.0 dB	± 1.5 dB
Input return	Typical	14 dB	12 dB	12 dB	12 dB
	Minimum	11 dB	10 dB	9 dB	8 dB
Output return	Typical	14 dB	12 dB	12 dB	12 dB
	Minimum	11 dB	10 dB	9 dB	8 dB
Gain Steps		1 ± 0.25 dB	Digitally controlled, 1dB step size		
Dynamic Range		28 dB			
Slope Settings		0, +2 dB, +4 dB, +6 dB			
Isolation	Single card	23 dB	Minimum between any two output ports		
	Card-to-card	45 dB	Minimum between adjacent cards in chassis.		
Noise figure	0dB gain setting	30 dB	Typical		
	14dB gain setting	18 dB			
	28dB gain setting	12 dB			
1 dB GCP	0dB gain setting	0 dBm	1 dB gain compression point, output power		
	14dB gain setting	5 dBm			
	28dB gain setting	10 dBm			

Power	
LNB Power	0/13/18V via common (RF in)) port with 22kHz select. 450mA per channel available but total LNB power per chassis is limited to approx 100W depending on other modules
Power Supply	24 Vdc
Input RF Power	16dBm Absolute maximum

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

Chassis Specification	
Dimensions	4U high x 450mm deep x 19" wide
Weight	20 kg (fully populated)
Colour	White 00-E-55 semi-gloss (Front panel)
AC Power	85-264V AC (50/60Hz)
PSU	Dual Hot Swap

System Control	
Local Control & Monitoring	Push button & display,
Remote Control & Monitoring	Via CPU as fitted, per chassis specifications

Key Features	
LNB power and 22kHz Tone	
Variable Gain (0-28 dB)	
Variable Slope Compensation (0-6 dB)	

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