



4-way L-band combiner with variable gain & variable slope

for ETL 26128 Modular System

RF Module 26128-COM407: L-band variable gain and variable slope compensation 4-way combiner. The RF modules are fully hot swappable.

Key Features:

Function: 4-way Combiner

Gain: Variable (range of 0-28dB)

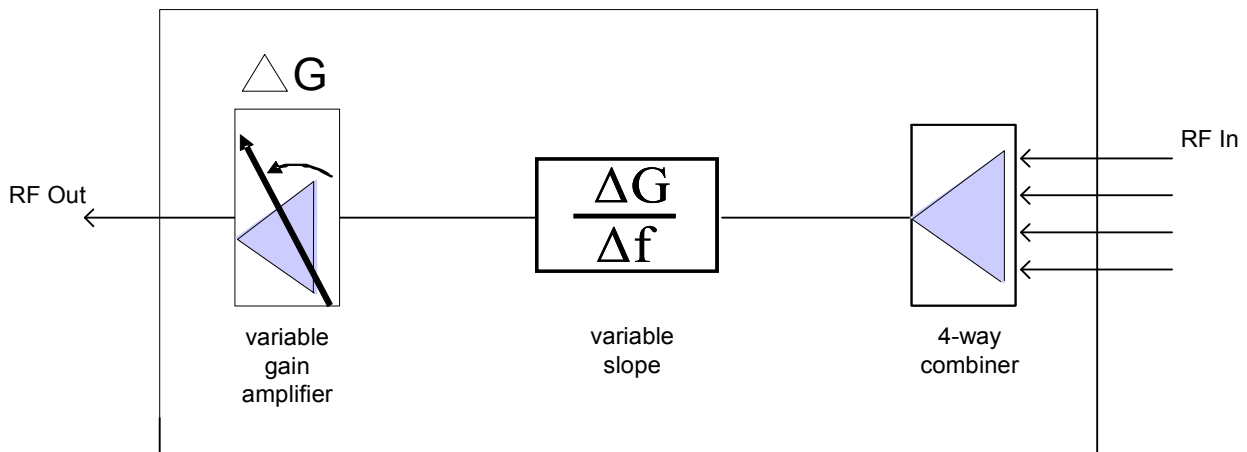
Slope Compensation: Variable

LNB Power: None

Slots: 1 (16 per chassis)

Other: Local & Remote control

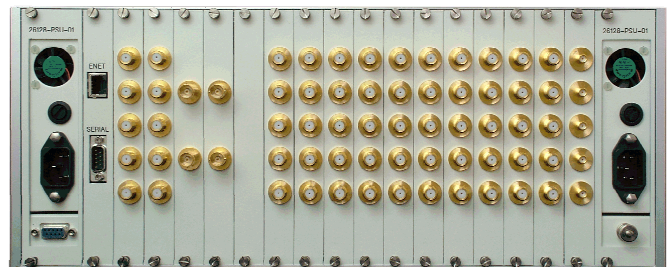
Application Notes: RF Distribution, low-cost high redundancy application



26128-COM407 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-COM407-S5S5

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RF Engineering and Custom Build

Technical specifications and operating parameters

PRELIMINARY SPECIFICATIONS

RF Parameters			
Capacity		4- way	
Module Slots Used		1	
Frequency Range		850-2150 MHz (L-band)	
Gain		0-28 dB	Remotely & locally variable
Flatness	850-2150 MHz	± 1.5 dB	At 0 dB slope compensation
	any 36 MHz band	± 0.5 dB	
Slope compensation		0 to 6 dB nominal positive slope	Remotely & locally variable
1 dB Compression		+5 dBm	
Input Return Loss		12 dB typical	
Output Return Loss		12 dB typical	

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

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

Chassis Specifications	
Input Connector	SMA
Input Impedance	50Ω
Output Connector	SMA
Output Impedance	50Ω
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 redundant, hot-swap

Power	
LNB Power	None
Power Supply	Chassis is AC mains powered and provides 24V DC to each RF module (see chassis specifications)

Key Features	
Variable Gain	
Variable Slope Compensation	

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