



Model Number: 26128-COM807-xxxx

RF Engineering
and Custom Build

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

for ETL 26128 Modular System

RF Module 26128-COM807: L-band variable gain and variable slope compensation 8-way combiner. The RF modules are fully hot swappable.

Key Features

Function: 8-way Combiner

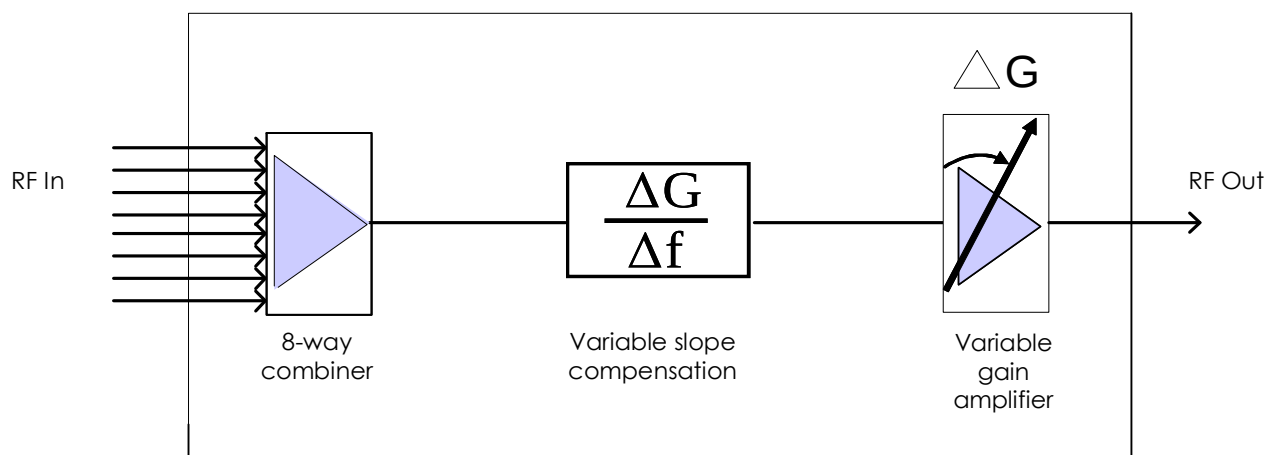
Gain: Variable (range of 0-24dB)

Slope Compensation: Variable

Slots: 2 (8 per chassis)

Other: Local & remote control

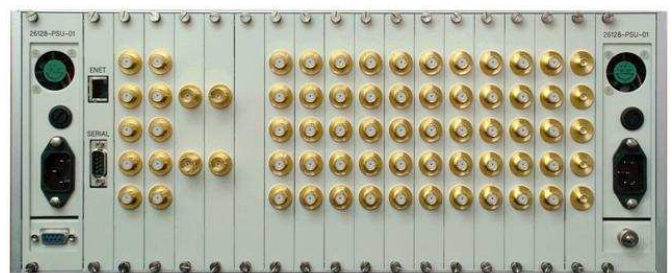
Application Notes: RF Distribution, low-cost high redundancy application



26128-COM807 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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Technical specifications and operating parameters

RF Parameters					
Capacity		8-way			
Module Slots Used		2			
Frequency Range		850-2150 MHz (L-band)			
RF Connectors		50Ω SMA	50Ω BNC	75Ω BNC	75Ω F-type
RF Ports		All RF ports are DC blocked			
Flatness		± 2.0 dB	± 2.0 dB	± 2.0 dB	± 2.5 dB
		At 0 dB slope selection			
Gain	Min Gain	0 ± 2 dB			
	Max Gain	24 ± 2 dB			
	Gain Steps	1 ± 0.25 dB			
	Dynamic Range	24 dB			
Variable, digitally controlled. Step size 1dB, range 24dB					
Frequency Slope		0 dB, +2 dB, +4 dB & +6 dB			
		User selectable			
Gain vs Frequency Slope		0 dB nominal		Fixed	
1dB GCP Output Power	0dB gain	0 dBm			
	14dB gain	14 dBm			
	24dB gain	16 dBm			
Noise Figure	24dB gain	20 dB			
	14dB gain	21 dB			
	0dB gain	24 dB			
Return Loss		14 dB	14 dB	12 dB	10 dB
Input to input isolation		25 dB		Between any 2 input ports	
Output to output isolation		>40 dB		50 dB typical. This isolation between any 2 cards within the same chassis	

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

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

Key Features	
8-way L-band Combiner	
Variable Gain	
Variable Slope Compensation	

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