



# IF dual redundant line amplifier with variable gain

for ETL 26128 Modular System

**RF Module 26128-AMP112:** IF dual redundant line amplifier with variable gain. The RF modules are fully hot swappable.

### Key Features

**Function:** Dual redundant Amplifier

**Gain:** Variable (range of 0-28dB)

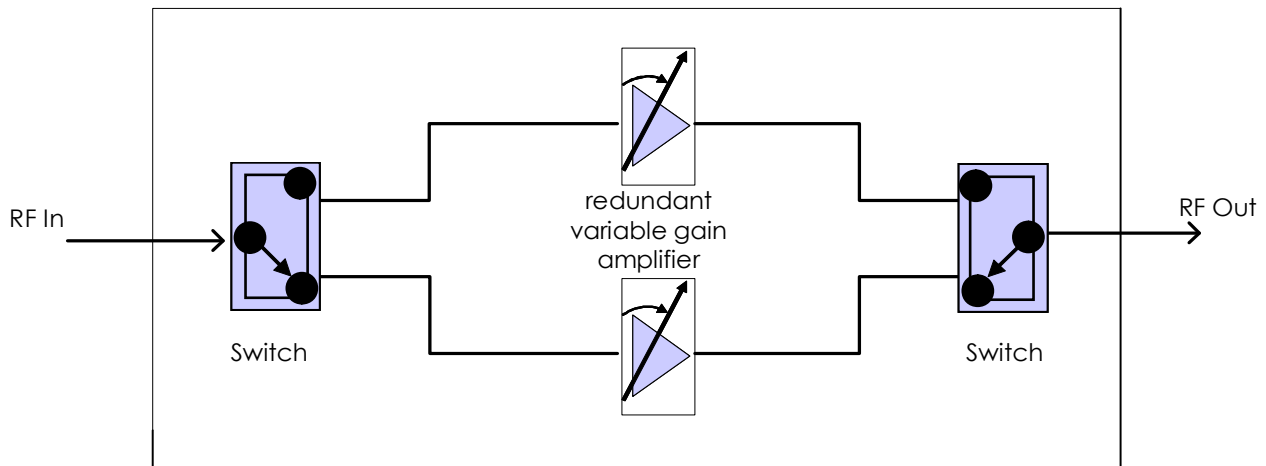
**Slope Compensation:** None

**LNB Power:** None

**Slots:** 1 (16 per chassis)

**Other:** local & remote control & monitoring

**Application Notes:** RF Distribution & uplinks, low-cost high resilience application



26128-AMP112 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-AMP112-xxxx

IF dual redundant amplifier with variable gain for Model 26128 Modular System

RF Engineering and Custom Build

## Technical specifications and operating parameters

RF Parameters					
Capacity	Redundant, Single Channel				
Module Slots Used	1				
Frequency Range	50-200 MHz (IF)				
Redundancy	1-to-1	Auto switch over from main to stand by is based on current sensing. Standby amp chain is cold standby redundant			
RF Connectors	50Ω SMA	50Ω BNC	75Ω BNC	75Ω F-type	
Flatness	50-200MHz	±0.75 dB	±0.75 dB	±0.75 dB	±0.75 dB
	140 ± 40MHz	±0.5dB	±0.5dB	±0.5 dB	±0.5 dB
Input Return Loss	18 dB typical	16 dB typical	14 dB typical	12 dB typical	
Output Return Loss	18 dB typical	16 dB typical	14 dB typical	12 dB typical	
Gain Control Range	28 dB typical				
Gain	Maximum	28 ± 2 dB			
	Minimum	0 ± 2 dB			
Max Gain Setting	28 dB typical		Settable in 1 dB Steps		
Linearity	1dB GCP	> + 13 dBm		At maximum gain setting	
		> - 5 dBm		At minimum gain setting	
Noise Figure	IP3	+ 23 dBm typical		Typical at maximum gain	
		10 dB		At maximum gain setting and 20°C	
		18 dB		At minimum gain setting and 20°C	
Crosstalk	40 dB		50 dB typical, spot frequencies 37 dB		
In band Spuri	< - 70 dBm				

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

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

Key Features	
Variable Gain	
Dual redundant amplifiers	

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