



L-band variable gain dual redundant high isolation amplifier with slope compensation for 26128 modular system chassis

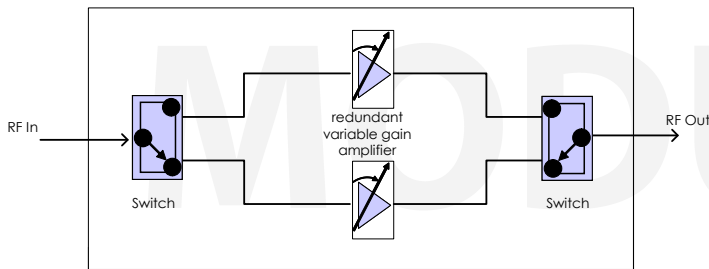
ETL's model 26128 Modular System offers total flexibility in managing L-band signals.

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 scalability.

Typical applications:

- Compensating for cable & other system losses between satellite dishes & teleport.
- Low cost high resilience application

Amplifier Modules



950 - 2150 MHz operating frequency range



Dual redundant amplifier provides resilience



Variable gain & slope compensation to balance input signals



High isolation to reduce signal crosstalk

Chassis



Compact chassis which can house up to 16 amplifier modules



Resilience from dual redundant hot-swap power supplies, hot-swap amplifier modules & hot-swap CPU



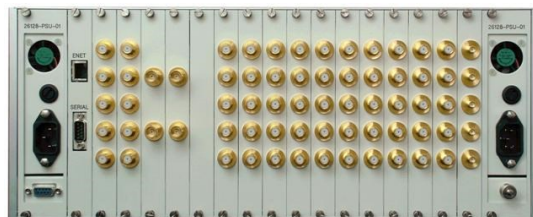
Remote control & monitoring via RJ45 Ethernet port with SNMP & web browser interface



Local control & monitoring via LEDs on modules



Dry contact alarm port & serial communications for power supply status





Amplifier Module - Technical specifications and operating parameters					
Function	Amplifier - Redundant, Single Channel				
Module Slots Used	1				
Frequency Range	950-2150 MHz (L-band)				
Redundancy	1-to-1 Auto switch over from main to stand by is based on current sensing. Standby amp chain is cold standby redundant				
Impedance & RF Connectors	50Ω SMA	50Ω BNC	75Ω BNC	75Ω F-type	50Ω N-type
Flatness Compared with nominal slope	950-2150MHz	±1.5 dB			
	Any 36MHz	±0.5 dB			
Input Return Loss	12 dB typical				
Output Return Loss	12 dB typical				
Max Gain Setting	20 dB minimum / 27 dB typical Settable in 1 dB Steps				
Slope Compensation	+ 3.5 dB ± 1 dB Nominal Positive slope				
Group Delay	< 1ns Peak variation across full bandwidth				
Gain Control Range	20 dB minimum / 31 dB typical				
Gain	20 ± 2 dB Maximum / 0 ± 2 dB Minimum				
Linearity	1dB GCP	> + 5 dBm		At maximum gain setting	
		> - 8 dBm		At minimum gain setting	
	IP3	> + 22 dBm		At maximum gain setting	
		> + 10 dBm		At minimum gain setting	
Noise Figure	15 dB		At maximum gain setting and 20°C		
	20 dB		At minimum gain setting and 20°C		
Crosstalk	60 dB		65 dB typical, 60 dB minimum. Cross talk between 2 cards set to same gain setting		
In band Spurii	< - 70 dBm				
RF Ports	All RF Ports are DC blocked				
MTBF	TBA				
Max. Input RF power	16 dBm				
Temperature	Operating: 0 to 45°C / Storage: -20°C to +75°C				
Humidity	85% non-condensing				
Local Control & Monitor	Push button & display, accessible via front door (on module)				

Chassis Specifications

Capacity	16 amplifier modules
Dimensions	4U high x 450mm deep x 19" wide
Weight	20 kg (fully populated)
Colour	White 00-E-55 semi-gloss (Front & Rear panels)
AC Power	85-264V AC (50/60Hz)
PSU	Dual redundant, hot-swap
Remote Control & Monitor	Via CPU as fitted, see chassis specifications

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.
Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.