



L-band variable gain dual redundant amplifier

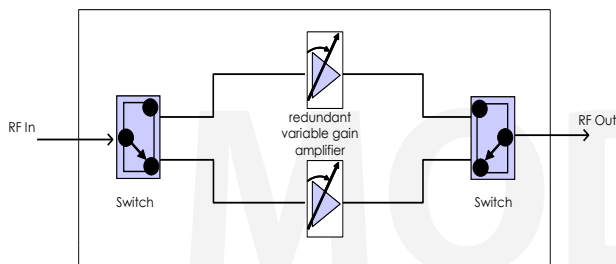
for 26128 modular system chassis

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 (some modules require 2 slots so can only hold 8), 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



850 - 2150 MHz
operating frequency range

Dual redundant amplifier
provides resilience



Variable gain
to balance input signals

Chassis



Compact chassis which can house up to 16 redundant amplifier modules



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



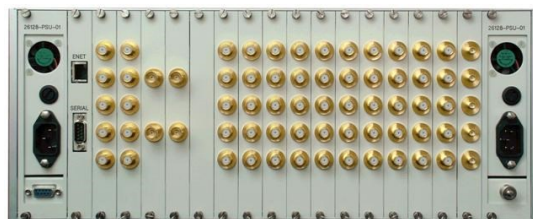
Remote control & monitoring via RJ45 Ethernet port with SNMP & web browser interface



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	850-2150 MHz (L-band)				
Redundancy	1-to-1. Auto switch over from main to stand by is based on current sensing. Standby amplifier chain is cold standby redundant.				
Gain	Minimum Gain	0 ± 2 dB		Variable gain, step size 1 dB, range 28 dB	
	Maximum Gain	28 ± 2 dB			
Gain Control	1 ± 0.25 dB (monotonic gain control)				
Gain Flatness	Over 850 to 2150MHz	± 2.0 dB			
	Over any 36MHz	± 0.5 dB			
RF Connectors & Impedances	50Ω SMA	50Ω BNC	75Ω BNC	75Ω F-type	
Input Return Loss	Typical	16 dB	16 dB	12 dB	12 dB
	Minimum	14 dB	14 dB	10 dB	10 dB
Output Return Loss	Typical	16 dB	16 dB	12 dB	12 dB
	Minimum	14 dB	14 dB	10 dB	10 dB
Noise Figure	At maximum gain setting	10 dB			
	At minimum gain setting	18 dB			
1dB GCP	At maximum gain setting	> +10 dBm			
	At minimum gain setting	> -5 dBm			
OIP3	At maximum gain setting	+22 dBm			
In band Spuri	< -70 dBm				
Crosstalk	40 dB (50 dB typical, spot frequencies 37 dB)				
RF Ports	All output RF Ports are DC blocked				
Power Supply	24 V DC See chassis specifications for input power				
Local Control & Monitor	Push button & display, accessible via front door (on module)				
Input RF Power	+20 dBm (40W) Absolute Maximum				
Chassis					
Capacity	16 x 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 datasheet				

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.

Please see separate datasheet for full
 26128 chassis specifications.

