



4-way L-band splitter with automatic or manual gain control

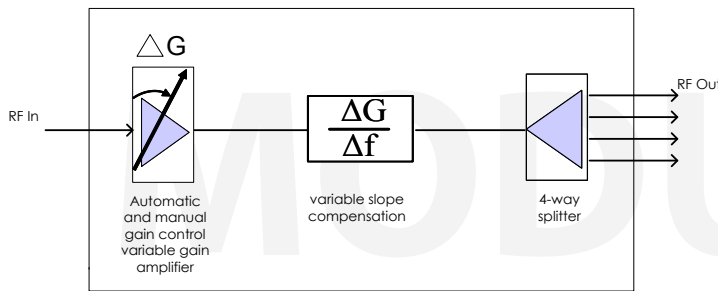
for 26128 modular system chassis

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:

- High resilience RF distribution
- Satellite operators, VSAT, teleports & broadcasters

Splitter Modules



850 - 2350 MHz
operating frequency range



RF detection for monitoring signal levels



Automatic or Manual Gain Control
AGC mode - output level can be selected
MGC mode - attenuation level can be selected.



Variable gain & slope compensation to balance input signals

Chassis



Compact chassis which can house up to 16 splitter modules



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



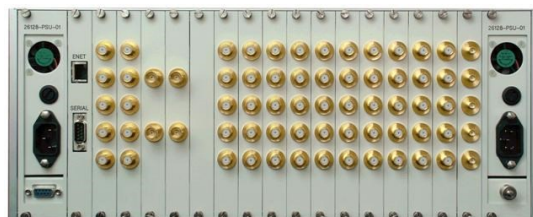
Remote control & monitoring via RJ45 Ethernet port with SNMP & web browser interface



Local control & monitoring via LEDs on modules



Dry contact alarm port & serial communications for power supply status





Splitter Module - Technical specifications and operating parameters - PRELIMINARY				
Function	4-way splitter			
Module Slots Used	1			
Frequency Range	850-2350 MHz (Extended L-band)			
Mode of operation	AGC (automatic gain control) or MGC (manual gain control)		User selectable. AGC gives fixed output levels; MGC gives constant gain.	
Impedance & RF Connectors	50Ω SMA	50Ω BNC	75Ω BNC	75Ω F-type
Input Return Loss	Typical	18 dB	18 dB	12 dB
	Minimum	14 dB	14 dB	10 dB
Output Return Loss	Typical	18 dB	18 dB	12 dB
	Minimum	14 dB	14 dB	10 dB
Frequency Slope	0 - 12 dB in 2 dB steps (over 850-2350 MHz)			
AGC Mode (Fixed output level mode)				
Output power levels	-15 to -5 dBm		User selectable in 1 dB steps	
Output power steps	1 dB			
Output power setting accuracy	± 1 dB			
Input power range	-45 to -15 dBm			
IP3	Typical	15 dBm		Maximum gain & 0 dB slope setting
	Minimum	10 dBm		
Settling Time	10 msec typical		TBC	
Manual Gain Control				
Gain	Minimum	1 ± 2 dB		
	Maximum	28 ± 2 dB		
Gain steps	1 ± 0.25 dB		Digitally controlled	
1dB GCP	Typical	2 dBm		Maximum gain & 0 dB slope setting
	Minimum	-2 dBm		
Input RF power	16 dBm Absolute maximum			
Isolation	Any 2 o/p ports	18 dB typical, 12 dB minimum		Between any 2 output ports
	Inter-card o/p ports	60 dB typical		Between any RF cards set to same gain level
	Inter-card i/p ports	60 dB typical		
Noise Figure	13 dB typical, 16 dB maximum		0 dB slope setting	
RF Detection (inputs)	-50 to -10 dBm		Typical	
LNB Powering	None			
Temperature	Operating: 0 to 45°C / Storage: -20°C to +75°C			
Humidity	20 to 90% non-condensing			
Local Control & Monitor	Push button & display, accessible via front door (on module)			
Chassis Specifications				
Capacity	16 splitter 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			

