



8-way L-band active splitter with dual redundant amplifiers, variable gain & slope, LNB powering

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 (8 modules for 8-way variants), which can be hot swapped or hot expanded. This provides excellent resilience and scalability.

Typical applications:

- Compensating for cable and other system losses between satellite dishes and the teleport
- Distribution of multiple polarities into a teleport
- Signal distribution into standby IRD's
- Combining signal in Tx chains to the BUC

Amplifier Modules



850 - 2150 MHz operating frequency range



Variable gain & slope compensation to balance input signals



Redundant Amplifiers 1 to 1 Auto switch over from main standby is based on current



Signal Monitoring with input RF detection



LNB Powering 13/18V & 22KHz tone on/off

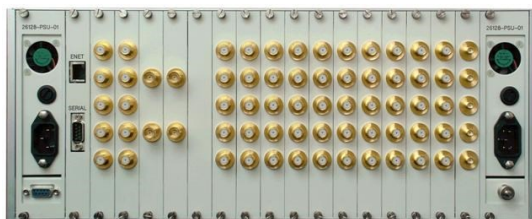
Chassis



Compact chassis which can house up to 8 splitter 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	8-way Active Splitter			
Module Slots Used	2			
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 amp chain is cold standby redundant		
Impedance & RF Connectors	50Ω SMA	50Ω BNC	75Ω BNC	75Ω F-type
Gain Flatness	850-2150MHz	±1.0 dB		
	Over any 40MHz	±0.25 dB		
Input Return Loss	Minimum	12 dB	12 dB	10 dB
	Typical	18 dB	18 dB	16 dB
Output Return Loss	Minimum	14 dB	14 dB	12 dB
	Typical	18 dB	18 dB	16 dB
Gain Control Range	1±0.25		Monotonic gain control	
Gain	0 ± 2 dB Minimum / 28 ± 2 dB Maximum		Variable gain, step size 1 dB, range 28 dB 75 ohm variant	
Gain vs. Frequency Slope	0 to 6 dB			
Gain vs. Freq. slope control	1±0.5 dB			
Noise Figure	Typical	9 dB		At maximum gain and 0dB slope setting
	Minimum	11 dB		
1 dB GCP	Typical	9 dBm		At maximum gain and 0dB slope setting
	Minimum	7 dBm		
OIP3	Typical	19 dBm		At maximum gain and 0dB slope setting
	Minimum	16 dBm		
RF Ports	All output RF Ports are DC blocked			
Input RF Detection	0 to -50 dBm			
Power Supply	24 V DC		See chassis specifications for input power	
LNB power	13/18V & 22 KHz tone on/off, 450mA max per card		Maximum allowed power per chassis shall NOT exceed 100W	
Local Control & Monitor	Push button & display, accessible via front door (on module)			
Remote Control & Monitor	Via CPU as fitted			
Chassis Specifications				
Capacity	8 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			

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.

