



ETL Systems

Excelling in RF Engineering

Model Number:  
26128-DIV424-XXXX

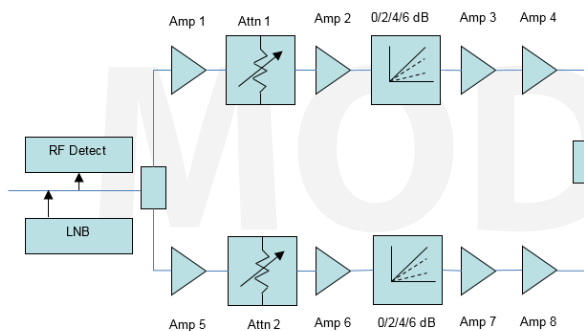
# 4-way L-band active splitter with variable gain & slope, dual redundant amplifiers, high linearity & LNB powering - for 26128 modular system chassis

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:

- Enhanced linearity for large antenna/ high signal power distribution
- Distribution of multiple polarities into a teleport
- Signal distribution into standby IRDs
- Expansion of ETL's RF matrix range
- Linking RF Matrices in expanding satellite teleports.
- Can be used for a high density RF distribution chassis where rack space is limited.
- As a replacement for non hot-swap passive systems to improve system design.

## Splitter Modules



**850 - 2450 MHz**  
operating frequency range



**High linearity** for high signal power distribution



**LNB Powering** 13/18V & 22KHz tone



**Variable gain & slope** to balance input signals



**Dual redundant amplifiers** for added resilience

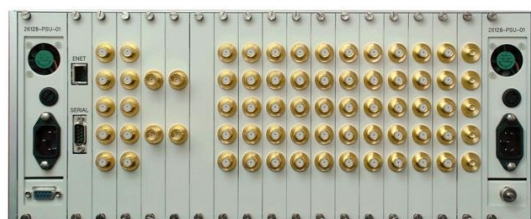
## Chassis



**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



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Preliminary specifications

Splitter Module - Technical specifications and operating parameters					
Function		4-way Active Splitter			
Module Slots Used		1			
Frequency Range		850-2450 MHz (Extended L-band)			
Amplifier Redundancy		1-to-1 (Auto switch over from main standby is based on current sensing. Standby amp chain is cold standby redundant)			
Gain	Minimum	0 ± 2 dB (Variable gain, step size 1 dB, range 28 dB )			
	Maximum	28 ± 2 dB (Variable gain, step size 1 dB, range 28 dB)			
Gain Control		1 ± 0.25 dB			
Gain vs. Frequency Slope		0 to 6 dB			
Gain vs. Frequency Slope Control		1 ± 0.5 dB			
Gain Flatness	Over 850 to 2150 MHz	± 1 dB			
	Over any 40 MHz	± 0.25 dB			
RF Connectors & Impedances		50Ω SMA	50Ω BNC	75Ω BNC	75Ω F-type
Input Return Loss	Typical	18 dB	18 dB	16 dB	16 dB
	Minimum	12 dB	12 dB	10 dB	10 dB
Output Return Loss	Typical	18 dB	18 dB	16 dB	16 dB
	Minimum	14 dB	14 dB	12 dB	12 dB
OIP3	Typical	25 dBm (At max gain and 0dB slope setting)			
1dB GCP	Typical	9 dBm (At max gain and 0dB slope setting)			
Noise Figure	Typical	10 dB (At max gain and 0dB slope setting)			
	Maximum	12 dB (At max gain and 0dB slope setting)			
LNB Power		450 mA max per card (Maximum allowed power per chassis shall NOT exceed 100 W)			
LNB Control		13/18 V DC with 22kHz select			
Power Supply		24 V DC (See chassis specifications for input power)			
Input RF Detection		0 to -50 dBm			
Input RF Power		+20dBm (40mW) max			
Max DC Voltage on RF Ports		24 V (All RF ports are DC blocked)			

Chassis	
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 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.



Esatcom Inc.  
www.esatcom.com  
Tel: 718.276.0800  
Email: sales@esatcom.com

