ETL Systems
Excelling in RF Engineering

Model Number:
26128-DIV429-XXXX

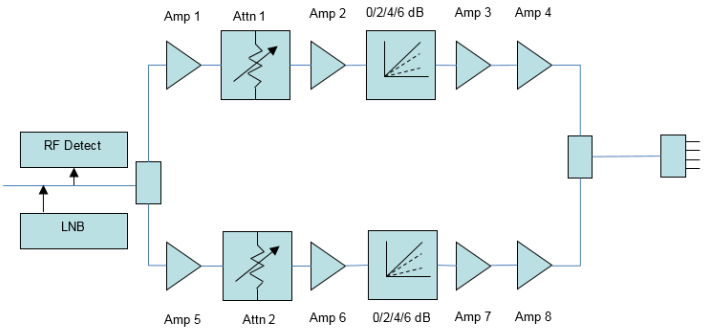
4-way L-band active splitter with variable gain & slope, dual redundant amplifiers, RF detection & LNB powering - for 26128 modular system chassis

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 scaleability.

Typical applications:

- Distribution of multiple polarities into a teleport
- Signal distribution into standby IRDs
- Combining signal in Tx chains to the BUC
- 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

LNB Powering 13/18V & 22KHz tone

RF detection for monitoring signal levels

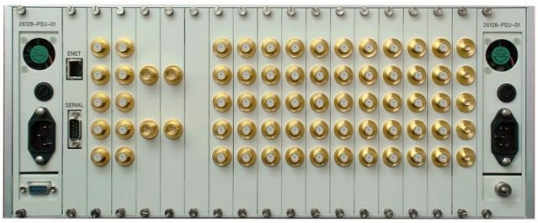
Variable gain & slope to balance input signals

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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Splitter Module - Technical specifications and operating parameters					
Function		4-way Active Splitter			
Module Slots Used		1			
Frequency Range		850-2450 MHz (Extended L-band) (75 ohm F-type and BNC are specified over 850 to 2150MHz.)			
Redundancy		1-to-1 (Auto switch over from main to standby is based on current sensing. Standby amp chain is cold standby redundant)			
Gain	Minimum	0 ± 2 dB			
	Maximum	28 ± 2 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 2450 MHz	± 1 dB			
	Over any 40 MHz	± 0.25 dB			
RF Connectors & Impedances All output RF ports are DC blocked		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	10 dB	10 dB
OIP3	Typical	19 dBm (At max gain and 0dB slope setting) (RF Performance between 2150MHz and 2450MHz will be degraded from the published figures for OIP3 and P1dB.)			
	Minimum	16 dBm (At max gain and 0dB slope setting) (RF Performance between 2150MHz and 2450MHz will be degraded from the published figures for OIP3 and P1dB.)			
1dB GCP	Typical	7 dBm (At max gain and 0dB slope setting) (RF Performance between 2150MHz and 2450MHz will be degraded from the published figures for OIP3 and P1dB.)			
	Minimum	5 dBm (At max gain and 0dB slope setting) (RF Performance between 2150MHz and 2450MHz will be degraded from the published figures for OIP3 and P1dB.)			
Noise Figure	Typical	9 dB (At max gain and 0dB slope setting)			
	Maximum	11 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			
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.

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RoHS COMPLIANT

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