ETL Systems
Excelling in RF Engineering

Model Number:
26128-DIV404-GxSy-XXXX

4-way L-band splitter with fixed gain control & 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 - 2150 MHz operating frequency range

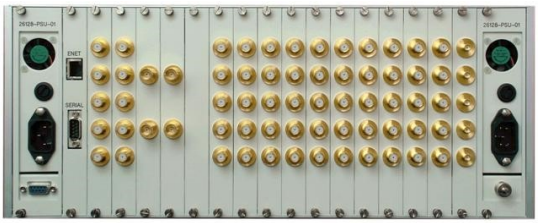
LNB Powering 13/18V & 22KHz tone

Fixed gain 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

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Splitter Module - Technical specifications and operating parameters					
Function		4-way active splitter			
Module Slots Used		1			
Frequency Range		850-2150 MHz (L-band)			
Gain		0 ± 2 dB			
Gain vs. Frequency Slope		0 dB nominal			
Impedance & RF Connectors		50Ω SMA	50Ω BNC	75Ω BNC	75Ω F-type
Gain Flatness		±0.5 dB	±0.65 dB	±1.0dB	±1.0 dB
Input Return Loss	Minimum	14 dB	12 dB	10 dB	8 dB
	Typical	18 dB	18 dB	14 dB	12 dB
Output Return Loss	Minimum	14 dB	12 dB	8 dB	8 dB
	Typical	18 dB	18 dB	10 dB	10 dB
Noise Figure	Typical	12 dB (At maximum gain and 0 dB slope setting)			
	Minimum	16 dB (At maximum gain and 0 dB slope setting)			
1 dB GCP	Typical	7 dBm (At maximum gain and 0 dB slope setting)			
	Minimum	5 dBm (At maximum gain and 0 dB slope setting)			
OIP3	Typical	17 dBm (At maximum gain and 0 dB slope setting)			
	Minimum	15 dBm (At maximum gain and 0 dB slope setting)			
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)			
LNB power		450mA max per card Maximum allowed power per chassis shall NOT exceed 100W			
LNB Control		13/18V 22KHz ON/OFF			

Chassis	
Capacity	16 splitter modules
Dimensions	4U high x 450mm deep x 19" wide
Weight	20 kg (fully populated)
Colour	RAL9003 - White Semi-Matte (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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