



Automatic L-band redundancy switch with RF detection & LNB powering

for ETL 26128 Modular System

RF Module 26128-SW103: Automatic L-band redundancy switch with RF detection and LNB powering. The RF modules are fully hot swappable.

Key Features

Function: Automatic Redundancy Switch

Slots: 1 (16 per chassis)

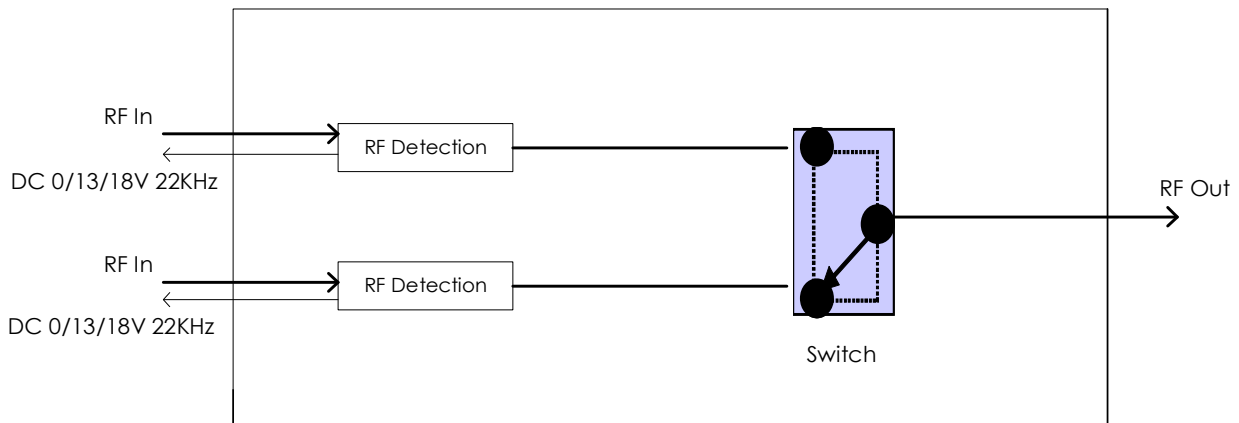
Gain: Fixed (0 dB)

Other: Manual & Auto modes, local & remote control

RF Detection: -60 dBm to 0 dBm

Application Notes: RF Distribution, low-cost high resilience application

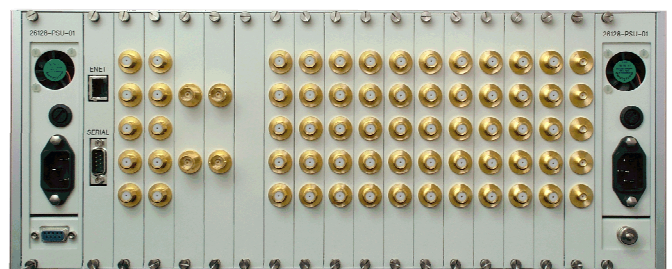
LNB Power: 0/13/18V with 22KHz tone on both feeds



26128-SW103 RF Module schematic block diagram



Front view showing hot-swap RF Module



Rear view of chassis

Overview: 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 scale ability.





Model Number: 26128-SW103-xxxx

RF Engineering
and Custom Build

L-band redundancy switch with fixed gain, RF detection
& LNB powering for Model 26128 Modular System

Technical specifications and operating parameters

RF Parameters					
Capacity	2 x 1 Redundancy		Includes integrated amps for unity gain. Automatic switch over based on RF level detection. Manual switch over is also available. Not bidirectional.		
Module Slots Used	1				
Frequency Range	850-2150 MHz (L-band)				
RF Connectors	50Ω SMA	50Ω BNC	75Ω BNC	75Ω F-type	
Flatness	850-2150MHz	±1 dB	±1 dB	±1 dB	±1 dB
Input Return Loss		20 dB typical	18 dB typical	15 dB typical	12 dB typical
Output Return Loss		20 dB typical	18 dB typical	15 dB typical	12 dB typical
Gain		0 ± 1 dB	Fixed, mean across band		
Gain vs frequency slope	0 dB nominal				
Linearity	1dB GCP	+ 5 dBm			
	IP3	+ 15 dBm			
Isolation	60 dB typical		50 dB worst case		
Noise Figure	10 dB				
RF Detection Range	-60 dBm to 0 dBm				

Power	
LNB Power	0/13/18V with 22kHz select, 450mA per channel available. Total LNB power per chassis is limited to approx. 100W, dependent on modules fitted
Power Supply	Chassis is AC mains powered and provides 24V DC to each RF module (see chassis specifications)

System Control	
Local Control & Monitor	Push button & display, accessible via front door
Remote Control & Monitor	Via CPU as fitted, see chassis specifications

Environmental	
Operating temperature	0 to 45°C
Location	Indoor use only
Storage temperature	-20°C to +75°C
Humidity	85% non-condensing

Chassis Specifications	
Dimensions	4U high x 450mm deep x 19" wide
Weight	20 kg (fully populated)
Colour	White 00-E-55 semi-gloss (Front panel)
AC Power	85-264V AC (50/60Hz)
PSU	Dual redundant, hot-swap

Key Features	
Fixed Gain	
RF Detection	
LNB powering	

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