



# 4-way L-band active combiner

with fixed gain & fixed slope.  
For 26128 modular system chassis.

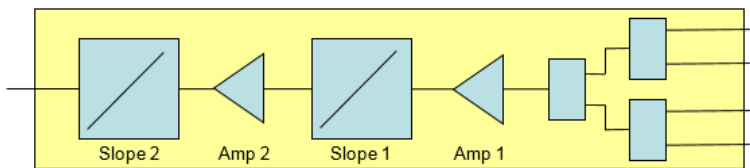
ETL's model 26128 Modular System offers total flexibility in managing L-band signals.

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

### 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.

## Combiner Modules



850 - 2150 MHz operating

Fixed gain & fixed slope  
input signals

## Chassis



**Compact** chassis which can house  
up to 16 combiner modules



**Resilience** from dual redundant hot  
-swap power supplies, hot-swap  
combiner 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





Combiner Module - Technical specifications and operating parameters				
Function	4-way Active Combiner			
Module slots used in chassis	1			
Frequency Range	850-2150 MHz (L-band)			
Gain	0 ± 2 dB			
Gain vs. Frequency Slope	0 dB Fixed			
Impedance & RF Connectors	50Ω SMA	50Ω BNC	75Ω BNC	75Ω F-type
Flatness	850-2150 MHz	±1.5 dB	±1.5 dB	±1.5 dB
	Any 36 MHz band	±0.5 dB	±0.5 dB	±0.5 dB
Linearity	1 dB GCP	+5 dBm		
	IP3	+15 dBm		
Noise Figure	15 dB			
Input Return Loss	12 dB Typical			
Output Return Loss	12 dB Typical			
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)			
Remote Control & Monitor	Via CPU as fitted (optional)			

Chassis Specifications	
Capacity	16 x 4-way combiner 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.

