



Model Number: 23128-N5N5

RF Engineering  
and Custom Build

## 4 x 1 IF / L-band Switch

With Local and Remote Control (via RJ45 Ethernet Port)



Front View of Model 23128-N5N5

This 4x1 broadband switch covers L-band and also IF switching, operating over the 50-2150MHz frequency range. The unit offers very high performance with fast solid state switching, high isolation, and nominal unity gain.

The unit can be controlled from illuminated push buttons on the front panel, which allows switching of the inputs to the outputs, and also remotely via an RJ45 Ethernet port on the rear panel.

The switch is powered from a single mains power supply. An LED on the front panel shows the power on/off status, and there is a dry contact alarm port on the rear panel for PSU failure.



Rear View of Model 23128 with 50 ohm BNC connectors

This particular unit is supplied with 50 ohm N-type connectors, but other impedances and connector types are available (model numbers will vary).





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## Technical specifications and operating parameters

RF Parameters		
Capacity	4 x 1	
Switch Type	Solid state <span style="float: right;">Volatile with power</span>	
Frequency Range	50-2150 MHz (IF / L-band)	
Insertion Loss	0 dB typical <span style="float: right;">± 1.5 dB</span>	
Gain Compression	3 dBm <span style="float: right;">P1 dB</span>	
Isolation	I/P - O/P	60 dB typical
	I/P - I/P	70 dB typical
Input Return Loss	10 dB typical	
Output Return Loss	10 dB typical	

System Control	
Local Control	Via illuminated push buttons on front panel
Remote Control	Via RJ45 ethernet port, simple protocol for M&C integration <span style="float: right;">LAN TCP/IP at rear</span>

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

Physical	
Input Connector	N-type
Input Impedance	50Ω
Output Connector	N-type
Output Impedance	50Ω
Dimensions	1U high x 350mm deep x 19" wide
Colour	White 00-E-55 semi-gloss (Front panel)

Power	
AC Power	85-264V AC (50/60Hz)
PSU	Single
Hot-swap PSU	None

Key Features	
Front panel illuminated push buttons for local control	
Single power supply	
Dry contact alarm for PSU failure	

ETL SYSTEMS LIMITED  
Coldwell Radio Station  
Madley  
Hereford  
England HR2 9NE

TELEPHONE  
+44 (0)1981 259020  
  
EMAIL  
info@etlsystems.com

FACSIMILE  
+44 (0)1981 259021  
  
WEB  
www.etlsystems.com

