



5 Channel 2:1 SHF Passive Switch with local & remote control & monitoring

Typical applications:

- Signal carrier monitoring of satellite feeds.
- RF switching for yachts, ships & other marine applications.
- Remote controlled unmanned satcom sites.
- Redundancy switching for main & standby IRD/modems.



DC to 18 GHz
operating frequency range

Compact 5 channel 2:1
switch housed in a 1U high chassis

Remote control & monitoring via RJ45 Ethernet port on rear panel





Technical specifications and operating parameters

RF Parameters					
Capacity	5 channel 2:1 Switch				
Input & Output Ports	50Ω SMA				
Frequency Range	DC to 18 GHz (SHF)				
Frequency	0 - 3 GHz	3 - 8 GHz	8 - 12.4 GHz	12.4 - 18 GHz	
Insertion Loss	≤ 0.2 dB	≤ 0.3 dB	≤ 0.4 dB	≤ 0.5 dB	
Gain Flatness	Full Band	±1.0 dB	±1.0 dB	±1.0 dB	±1.0 dB
	Any 80 MHz	±0.2 dB	±0.2 dB	±0.2 dB	±0.2 dB
Input Return Loss	Typical	20 dB	18 dB	16 dB	16 dB
	Minimum	18 dB	17 dB	15 dB	13 dB
Output Return Loss	Typical	20 dB	18 dB	16 dB	16 dB
	Minimum	18 dB	17 dB	15 dB	13 dB
Isolation	60 dB		Min. between any two input ports		

Environmental	
Operating temperature	0 to 50°C
Location	Indoor use only
Storage temperature	-50°C to +75°C
Humidity	20 to 95% non-condensing Relative humidity
Altitude	10,000 feet AMSL (above mean sea level)

System Control	
Remote Control & Monitoring	Ethernet (RJ45) port on Rear Panel
Local Control & Monitoring	Via front panel push buttons & display
Alarms	Ethernet (RJ45) for PSU

Power		
Input RF Power	30 dBm	Absolute Maximum
PSU Power	85-264Vac 50/60Hz	Fused 2A
LNB Power	None	
PSU Redundancy	None	Single PSU
AC Consumption	30W	Maximum consumption at steady state

Physical	
Dimensions	1U high x 350mm deep x 19" rack mountable
Weight	5 kg
Colour	RAL9003-White (Semi-Matte)

Preliminary Specifications

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.

