



16:1 SHF (DC to 40 GHz) Bi-directional Switch

With local & remote control & monitoring via Ethernet port

Typical applications:

- Signal Carrier Monitoring of satellite feeds
- RF Switching for yachts, ships & other marine applications
- Redundancy switching for main & standby satellite dishes
- Redundancy switching for main & standby IRD / modems
- Redundancy switching for up-converters & down converters
- Remote controlled unmanned satcom sites



Local control & monitoring via front panel push buttons & display



DC- 40 GHz operating frequency range



Compact housed in a 1U high chassis

Bi-directional signals may pass either way through the switch



Dry contact alarm port for power supply status



Remote control & monitoring via RJ45 Ethernet port with SNMP & web browser interface



Resilience from dual redundant Hotswap power supplies





Technical specifications and operating parameters

RF Parameters						
Capacity	16 :1					
Frequency Range	DC—40 GHz					
Frequency Bands (dB)	0-3	3-8	8-12.4	12.4-18	18-26.5	26.5-40
Insertion Loss (dB) (max)	1.2	2.0	2.4	3.0	3.5	5.2
Flatness (dB)	± 1.0	±1.0	±1.0	±1.0	±1.5	±2.4
Return Loss (any port) (dB)	20 typ. 16 min.	18 typ. 14 min.	16 typ. 12 min.	14 typ. 10 min.	12 typ. 8 min.	8 typ. 6 min.
Isolation	68	70	60	60	55	45
Input RF Power (dBm)	16	16	16	16	16	16

Power		
PSU Power	85-264Vac 50/60Hz	Fused 2A
AC Consumption	30W	Max. consumption at steady state
LNB Power	None	
PSU	Dual redundant and alarmed	Diode OR. Hot-swap
Switch Life	2,000,000 cycles	Per position

System Control	
Local Control	Via Front Panel LCD and push buttons
Remote Control	RJ45 Ethernet port 10/100 Base T. TCP/IP, SNMP & Web browser interface.
Alarm/Monitoring	Ethernet (RJ45) & Dry contact (D-type) for PSU and summary alarms

Environmental	
Operating temperature	0 to 45°C
Location	Indoor use only
Storage temperature	-20°C to +75°C
Humidity	20 to 90% non-condensing
Altitude	10,000 feet AMSL (above means sea level)

Physical	
Input & output RF connector	SMA 2.9
Input & output impedance	50Ω
Dimensions	1U high x 450mm deep x 19" wide
Weight	6 kg
Colour	White 00-E-55 semi-gloss

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.