

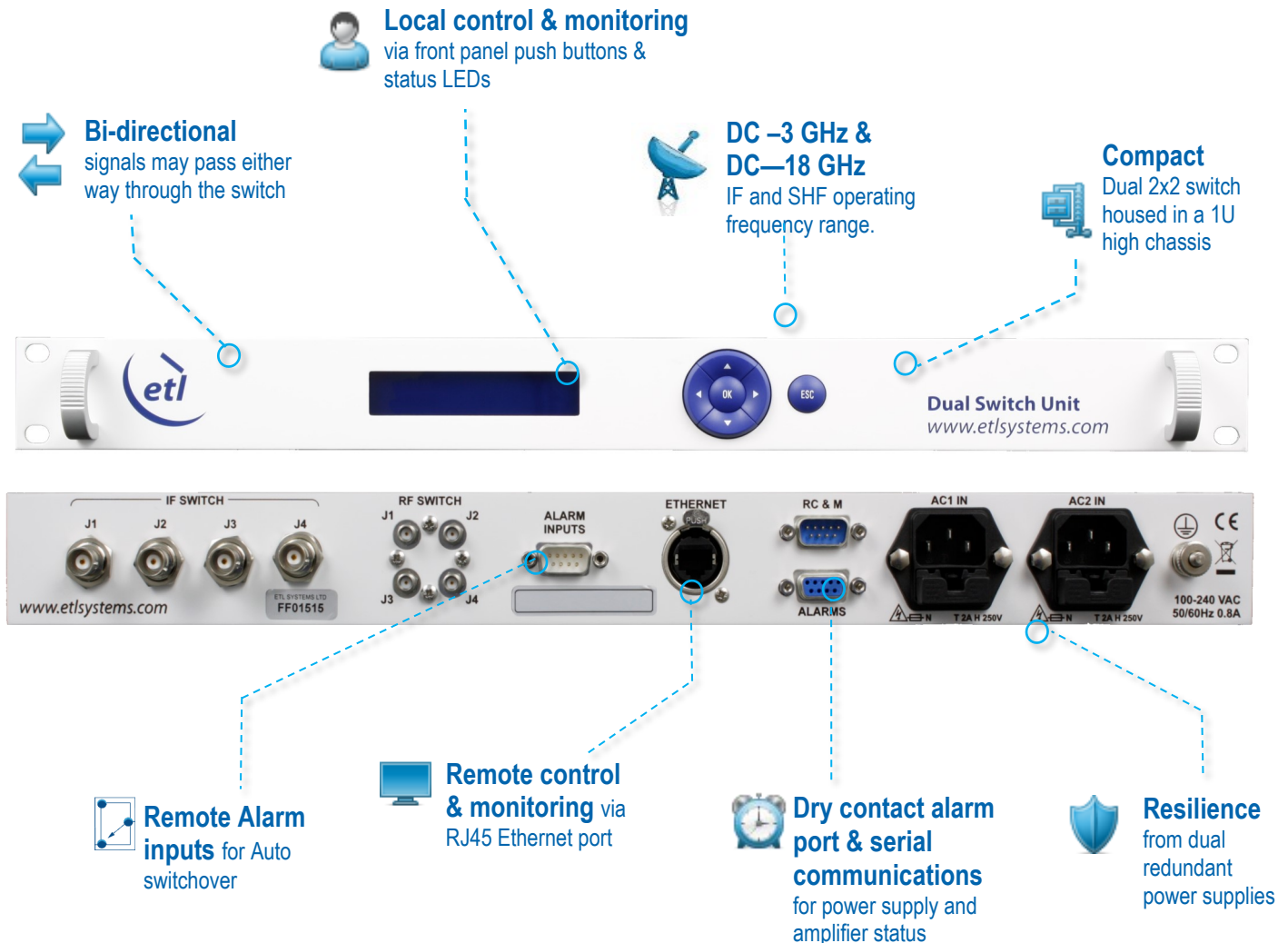


Dual 2x2 SHF & IF Bi-directional Switch

With alarm inputs for auto switching

Typical applications:

- Redundancy switching for main & standby satellite dishes
- Redundancy switching for main & standby IRD/modems
- Redundancy switching for up-converters & downconverters
- Remote controlled unmanned satcom sites





Technical specifications and operating parameters

RF Parameters					
Capacity	Dual 2x2 Switch				
Input & output ports	50Ω BNC (max 3 GHz) / 50Ω SMA		All ports DC pass		
Frequency Range	DC-3 GHz/ DC -18 GHz				
IF Switch (DC-3GHz)					
Frequency (GHz)	0-0.75	0.75-1.5	1.5-2.25	2.25-3	
Insertion Loss (dB)	Maximum	0.3	0.4	0.5	0.7
	Flatness (dB)	±1.0			
Flatness (dB)	Full	±1.0			
	Any 80 MHz	±0.2			
Input Return Loss (dB)	Typical	20	18	16	16
	Minimum	18	17.7	14	12
Output Return Loss (dB)	Typical	20	18	16	16
	Minimum	18	17.7	14	12
Isolation (dB) Max. between any two output ports	80				
SHF Switch (DC-18GHz)					
Frequency (GHz)	0-3	3-8	8-12.4	12.4-18	
Insertion Loss (dB)	Maximum	0.2	0.3	0.4	0.5
	Flatness (dB)	±1.0			
Flatness (dB)	Full	±1.0			
	Any 80 MHz	±0.2			
Input Return Loss (dB)	Typical	20	18	16	16
	Minimum	18	17.7	14	12
Output Return Loss (dB)	Typical	20	18	16	16
	Minimum	18	17.7	14	12
Isolation (dB) Max. between any two output ports	80	70	65	60	
Input RF Power (dBm)	+50 Absolute maximum at 25°				

Environmental	
Operating temperature	0 to 50°C
Location	Indoor use only
Storage temperature	-50°C to +70°C
Humidity	20 to 95% non-condensing
Altitude	10,000 feet Above Mean Sea Level

Power		
PSU Power	85-264Vac 50-60Hz	Fused 2A
AC Consumption	30W	Max. consumption at steady state
PSU	Dual redundant and alarmed. Diode OR.	
Hot-swap PSU	No	

System Control		
Remote control & monitoring	Serial (RS232 or RS422/485) and Ethernet (RJ45) on rear panel. Remote Alarm inputs for Auto switchover	Including web browser interface
Alarms	Dry contact (D-type) & Ethernet (RJ45)	PSU and Amp Status

Physical	
Dimensions	1U high x 350mm deep x 19" wide
Weight	5 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: For reliable long term operation beyond the quoted limits stated above may cause instantaneous and permanent damage.

