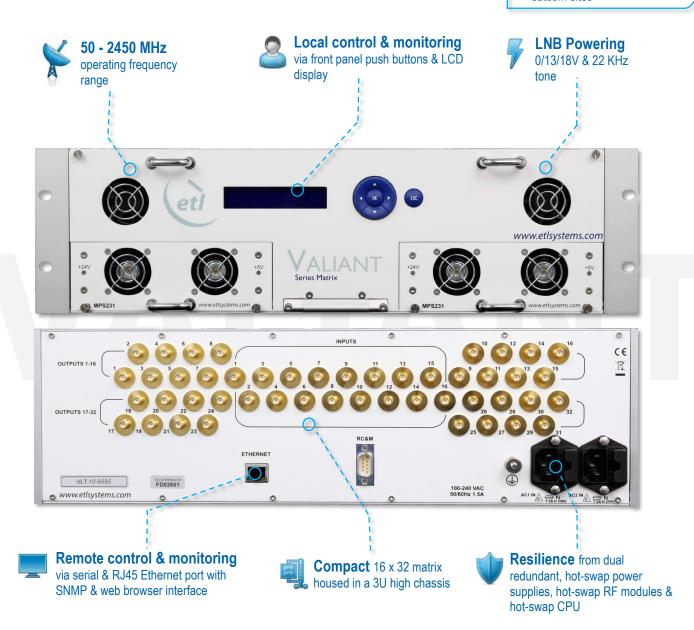


## 16 x 32 IF / L-band Valiant Switch Matrix / Router

## with LNB powering

## **Typical applications:**

- Live news & sport traffic for smaller applications
- SNG or Outside Broadcast Trucks
- RF content acquisition for smaller TVRO & IPTV headends
- RF distribution in larger cruise liners or luxury yachts
- Remote controlled unmanned satcom sites



















## Technical specifications and operating parameters

RF Parameters					
Capacity		16 inputs x 32 outputs			
Routing		Distributive, non-blocking		Any input can be connected to any number of outputs	
Frequency Range		50-2450 MHz (IF / L-band)			
RF Connectors		50Ω SMA	50Ω BNC	75Ω BNC	75Ω F-type
Gain Flatness	50-2150MHz	±2.0 dB	±2.0 dB	±2.0 dB	±2.0 dB
	Full Band	±2.5 dB	±2.5 dB	±3.0 dB	±3.0 dB
	Any 36MHz	±0.5 dB	±0.6 dB	±0.65 dB	±0.8dB
Input	Typical	15 dB	15 dB	12 dB	12 dB
Return Loss	Minimum	12 dB	12 dB	10 dB	10 dB
Output	Typical	15 dB	15 dB	12 dB	12 dB
Return Loss	Minimum	12 dB	12 dB	8 dB	8 dB
Gain		0±2.5 dB	0±2.75 dB	0±3.0 dB	0±3.25 dB
1dB Gain Compression (Input)		0 dBm Typical input power			
OIP3		≥ + 10 dBm Typical 3rd order intercept point, output power			
Isolation	I/P - O/P	≥60 dB typical			
	I/P - I/P	≥60 dB			
	O/P - O/P	≥70 dB			
Noise Figure		20 dB typical, 22dB maximum			
Switching Time		≤100 ms From when command is received by interface until the connection is made.			

Environmental				
Operating temperature	0 to 55°C			
Location	Indoor use only			
Storage temperature	-20°C to +75°C			
Humidity	20 to 90% non-condensing			
Altitude	10,000 ft AMSL	Above mean sea level		

Power				
AC Power	85-264Vac 50/60Hz	Fused 2A		
AC Consumption	300W	Total AC input (Max)		
LNB Power	0/13/18V @ 500 mA, 22 KHz tone			
PSU	Dual redundant	Diode OR		
Hot-swap PSU	Yes			

System Control		
Local Control	Via Front Panel LCD display and push buttons	
Remote Control	Via RS232/485 serial port and RJ45 Ethernet port 10/100 Base T. TCP/IP, SNMP and web browser interface.	

Physical		
Dimensions	3U high x 300mm deep x 19" wide	
Weight	12 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.