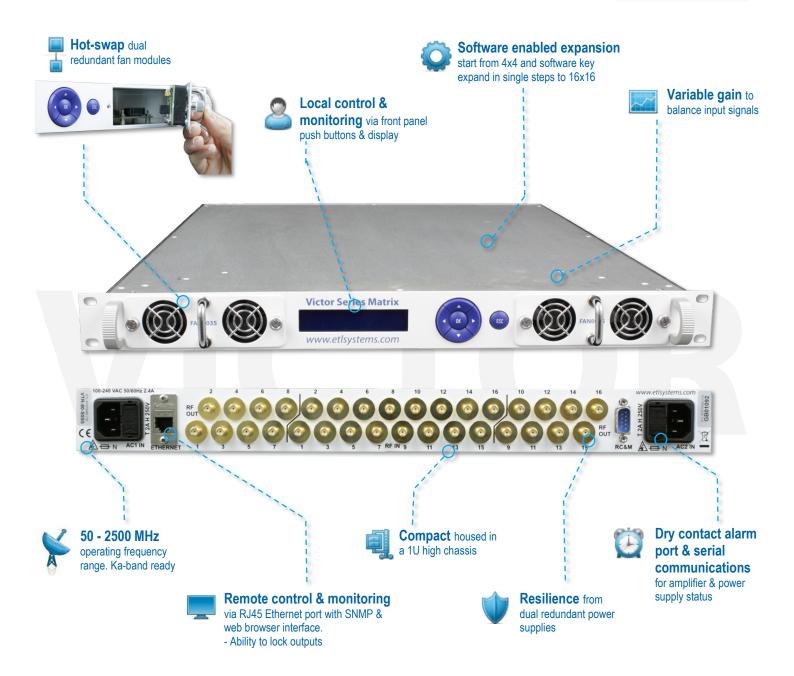


## **Up to 16 x 16 IF / Extended Distributive L-band Victor series Switch Matrix / Router**

## **Typical applications:**

- TVRO, smaller teleports and satellite ground stations.
- Oil and gas applications.
- RF distribution in cruise liners or luxury yachts.
- SNG and outside broadcast trucks.



















## Technical specifications and operating parameters

RF Parameters					
Capacity		Up to 16 inputs x 16 outputs			
Routing		Distributive, non-blocking		Any input can be connected to any number of outputs	
Frequency Range		50-2500 MHz (IF / Extended L-band)			
RF Connectors		50Ω SMA	50Ω BNC	75Ω BNC	75Ω F-type
Flatness	Full band	±1.75 dB	±1.75 dB	±2.0 dB	±2.5 dB
	850-2150MHz	±1.5 dB	±1.5 dB	±1.75 dB	±1.75 dB
	50-200MHz	±0.5 dB	±0.5 dB	±0.5 dB	±0.5 dB
	Any 36MHz	±0.3 dB	±0.3 dB	±0.4 dB	±0.45 dB
Input Return Loss	Typical	18 dB	16 dB	12 dB	10 dB
	Minimum 2150	10 dB	12 dB	8 dB	8 dB
	Minimum 2500	10 dB	10 dB	6 dB	6 dB
Output	Typical	18 dB	16 dB	12 dB	10 dB
Return Loss	Minimum 2150	12 dB	12 dB	8 dB	8 dB
	Minimum 2500	10 dB	10 dB	6 dB	6 dB
Gain	Gain	0 ± 2 dB		Typical, mean across band	
	Max Gain G <sub>max</sub>	+ 3 ± 2 dB		Typical, mean across band	
	Min Gain G <sub>min</sub>	- 3 ± 2 dB		Typical, mean across band	
	Gain steps	0.25 dB		Fine monotonic gain control	
14D CCD	50-2150 MHz	1 dBm ± 2		Output power	
1dB GCP	2150-2500 MHz	-3 dBm ± 2		Output power	
OIP3		+12 dBm		3rd order intercept point, output power	
OIP2		+20 dBm		2nd order intercept point, output power	
	I/P - O/P	60 dB (70 dB typical)		Minimum between any 2 ports	
Isolation	I/P - I/P	75 dB (85 dB typical)		Minimum between any 2 ports	
	O/P - O/P	75 dB (85 dB typical)		Minimum between any 2 ports	
Group	50-2500MHz	≤ 3 ns			
Delay	200-2500MHz	≤ 1 ns			
Spurious	Carrier Related	-65 dBc (Excluding harmonics and offsets < 100kHz from carrier)			
	Carrier Un- related	-85 dBm (Within operating frequencies)			
Noise Figure	Max gain	17 dB		Typical, 1 input routed to 1 output	
	Unity gain	21 dB		Typical, 1 input routed to 1 output	
	Min gain	25 dB		Typical, 1 input routed to 1 output	
Input RF Power		+ 24 dBm		Absolute maximum	
Tech Spec	Tech Spec Version				

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 Mean Sea Level)	

Power				
PSU Power	85-264Vac 50-60Hz	Fused 2A		
AC Consumption	50W	Max. consumption at steady state		
PSU	Dual redundant	Diode OR. Not hot swap		
MTBF	114,000 hours			

System Control			
Local Control	Via Front Panel LCD and push buttons		
Remote Control	Via RS232/485 serial port and RJ45 Ethernet port 10/100 Base T. TCP/IP, SNMP & Web browser interface.		
Alarms	Dry contact (D-type) & Ethernet (RJ45) for PSU & Amp. status		

Physical		
Dimensions	1U high x 550mm deep x 19" wide	
Weight	6 kg	
Colour	RAL 9003 semi-matte (white)	

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.

Note 3: Typical parameters are guide figures and measured data may deviate from the quoted figures. ETL endeavours to exceed the quoted typical parameters where practically possible.

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

TELEPHONE +44 (0)1981 259020

info@etlsystems.com

**EMAIL** 

FACSIMILE +44 (0)1981 259021

WEB

www.etlsystems.com







