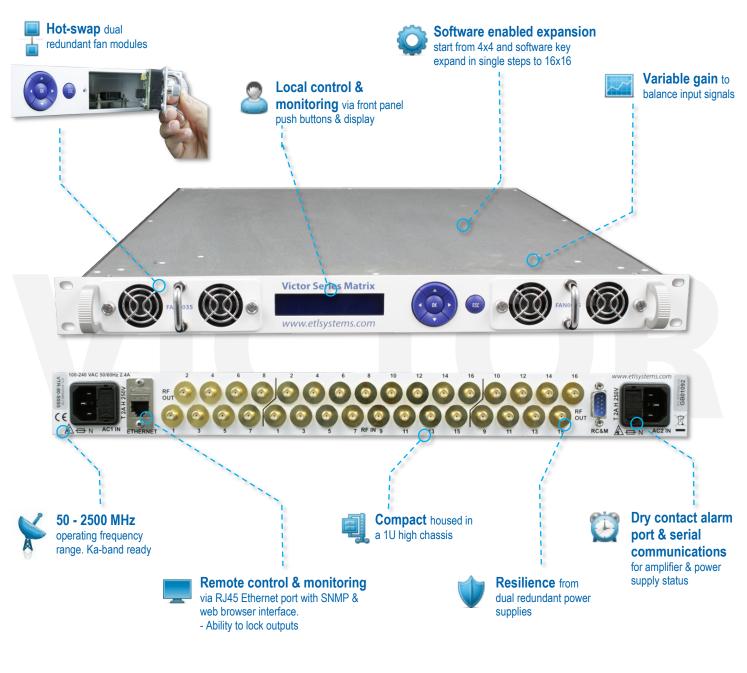


Up to 16 x 16 IF / Extended Distributive L-band Victor series Switch Matrix / Router

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.





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Model Number: VTR-71-xxxx

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 Return Loss	Typical	18 dB	16 dB	12 dB	10 dB	
	Minimum 2150	12 dB	12 dB	8 dB	8 dB	
	Minimum 2500	10 dB	10 dB	6 dB	6 dB	
	Gain	0 ± 2 dB Typical, mean across bar		cross band		
Gain	Max Gain G _{max}	+ 3 dB		Typical, mean across band		
	Min Gain G _{min}	- 3 dB		Typical, mean across band		
	Gain steps	0.25 dB		Fine monotonic gain control		
1dB GCP	50-2150 MHz	1 dBm ± 2		Output power		
	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		
Isolation	I/P - O/P	60 dB (70 dB typical)		Minimum between any 2 ports		
	I/P - I/P	75 dB (85 dB typical)		Minimum between any 2 ports		
	0/P - 0/P	75 dB (85 dB typical)		Minimum between any 2 ports		
Group Delay	50-2500MHz	≤ 3 ns				
	200-2500MHz	≤ 1 ns				
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		

Technical specifications and operating parameters

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.

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