

Typical applications: • TVRO, smaller teleports

and satellite ground

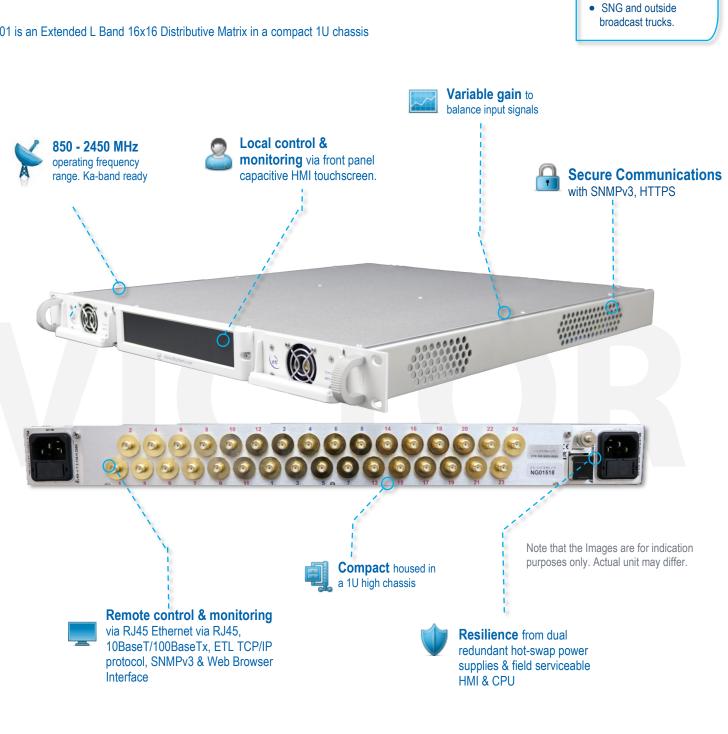
• Oil and gas applications.

• RF distribution in cruise liners or luxury yachts.

stations.

Up to 16x16 Distributive L-band Victor series Switch Matrix / Router

VTR-101 is an Extended L Band 16x16 Distributive Matrix in a compact 1U chassis







Model Number: VTR-101-1616

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		850—2450 MHz		1	
Switching Time		< 50ms (From receipt of a command to implementation of path change)			
RF Connectors		$50\Omega\text{SMA}$	50Ω BNC	75Ω BNC	75Ω F-type
Flatness	Full band	±1.75 dB	±1.75 dB	±2.0 dB	±2.0 dB
	850-2150 MHz	±1.25 dB	±1.25 dB	±1.5 dB	±1.5 dB
	Any 36 MHz	±0.3 dB	±0.3 dB	±0.5 dB	±0.5 dB
Input	Typical	20 dB	20 dB	14 dB	14 dB
Return Loss	Minimum	14 dB	14 dB	10 dB	8 dB
Output Return Loss	Typical	20 dB	20 dB	14 dB	14 dB
	Minimum	14 dB	14 dB	10 dB	8 dB
Gain	Gain	1 ± 1 dB		Typical, mean	across band
	Gain Control	0 to +5 dB		Settable at each input	
	Gain steps	0.25 dB			
1dB GCP	850-2150MHz	Min 4 dBm		1dB Gain Compression point, output power, Unity Gain.	
	2150- 2450MHz	Min 2 dBm			
	Full Band	18 dBm Typical. 13 dB Minimum			
OIP3	850-2150MHz	19 dBm Typical. 16 dB Minimum			
	Typical	26 dBm		2nd order intercept point	
OIP2	Min	24 dBm		2nd order intercept point	
Isolation	I/P - O/P	60 dB		Minimum between any 2 ports	
	I/P - I/P	75 dB		Minimum between any 2 ports	
	0/P - 0/P	75 dB		Minimum between any 2 ports	
Group Delay		≤1 ns			
Noise	Full Band	Typical 14 dB, max 17 dB			
Figure	850-2150MHz	Typical. 13 dB, max 16 dB			
Input RF Power		+ 20 dBm		Absolute maximum	
Tech Spec Version		1.2			
ETL SYSTEMS LIMITED Coldwell Radio Station		TELEPHON +44 (0)1981		FACSIMILI +44 (0)198	

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 (Operational) 30,000 feet AMSL (Storage)	
Gain stability vs Temperature	0.05dB/°C	
Power		

Power					
PSU Power		85-264Vac 50-60Hz	Fused 2A		
AC Consumption		20W	Max. consumption at steady state		
PSU		Dual redundant	Diode OR.		
MTBF	Chassis	> 250,000			
	Matrix Card	> 100,000			

System Control		
Local Control & Monitoring	НМІ	
Remote Control & Monitoring	Ethernet via RJ45, 10BaseT/100BaseTx ETL TCP/IP, SNMPv3,HTTPS, Built in Web Server	
Alarms	Via Ethernet (RJ45) or HMI	
PSU Redundancy	Dual Redundant & Alarmed	

Physical		
Dimensions	1U high x 650mm deep x 19" wide	
Weight	10 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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