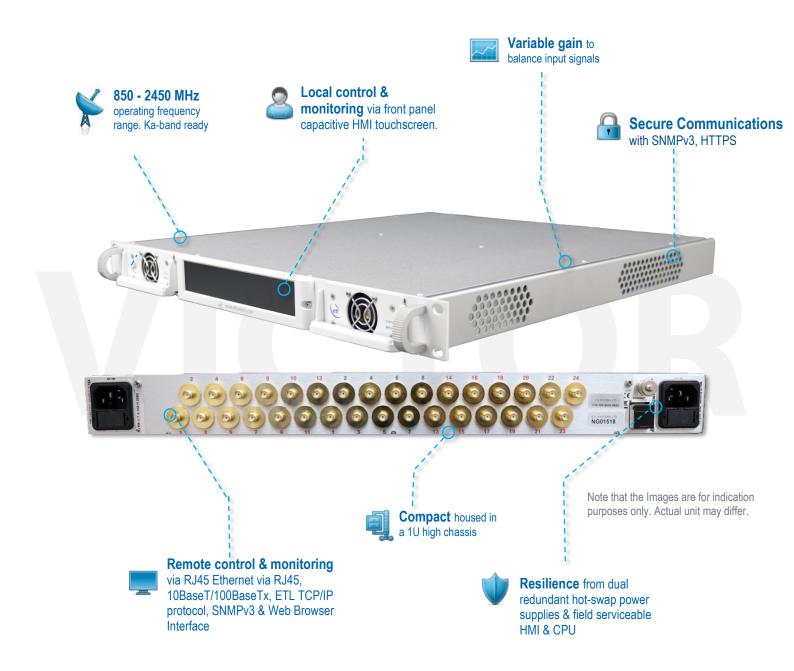


Up to 16x16 Distributive L-band Victor series Switch Matrix / Router

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

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		850—2450 MHz			
Switching Time		< 50ms (From receipt of a command to implementation of path change)			
RF Connectors		50Ω 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 Return	Typical	20 dB	20 dB	14 dB	14 dB
Loss	Minimum	14 dB	14 dB	10 dB	8 dB
Output Return	Typical	20 dB	20 dB	14 dB	14 dB
Loss	Minimum	14 dB	14 dB	10 dB	8 dB
	Gain	0 ± 2 dB		Typical, mean across band	
Gain	Gain Control	0 to +5 dB		Settable at each input	
	Gain steps	0.25 dB			
14D CCD	850-2150MHz	Min 4 dBm		1dB Gain Compression point, output power, At Unity Gain.	
1dB GCP	2150-2450MHz	Min 2 dBm			
	Full Band	18 dBm Typical. 13 dB Minimum, At Unity Gain			ain
OIP3	850-2150MHz	19 dBm Typical. 16 dB Minimum, At Unity Gain		in	
OIP2	Typical	26 dBm		At Unity Gain	
Oli Z	Min	24 dBm		At Unity Gain	
	I/P - O/P	60 dB		Minimum between any 2 ports	
Isolation	I/P - I/P	75 dB		Minimum between any 2 ports	
	O/P - O/P	75 dB		Minimum between any 2 ports	
Group Delay		≤ 1 ns			
Noise	Full Band	Typical 14 dB, max 17 dB		Unity Gain, with one input routed to one output.	
Figure	850-2150MHz	Typical. 13 dB, max 16 dB		Unity Gain, with one input routed to one output.	
Input RF Power		+ 20 dBm Absolute maximum			mum
Tech Spec Version		1.2			
Spurious	Carrier Related	-65 dBc		Excluding harmonics. Max Carrier level -10dBm	
Spurious	Carrier Un- related	-85 dBm		Within operating frequencies	

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					
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			
IVIIDF	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.

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







