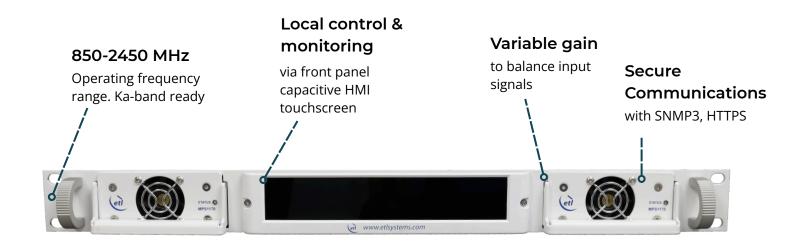


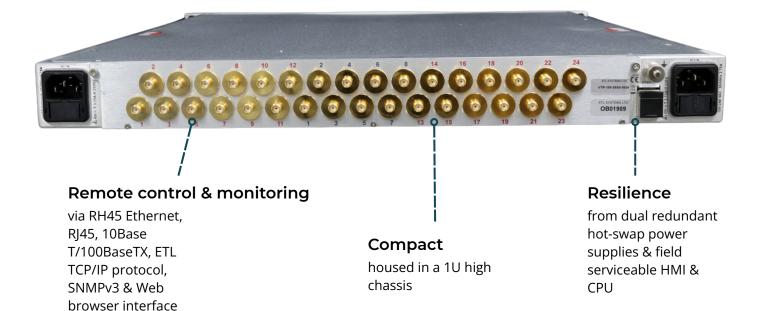


Victor Series Switch Matrix/Router

16 x 16 Distributive L-band

VTR-101 is an extended L-band 16x16 distributive matrix in a compact 1U chassis.







		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		50 Ω SMA	50 Ω BNC	75 Ω BNC	75 Ω F-type	
	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 Loss	Тур.	20 dB	20 dB	14 dB	14 dB	
	Min.	14 dB	14 dB	10 dB	8 dB	
Output Refurn Loss	Тур.	20 dB	20 dB	14 dB	14 dB	
	Min.	14 dB	14 dB	10 dB	8 dB	
Gain	Gain	0 ± 2	2 dB	Typical, mean across band		
	Gain Control	0 to +5 dB		Settable at each input		
	Gain Steps		0.25 dB			
1 dB GCP	850-2150 MHz	MIn. 4 dBm		1 dB Gain Compression point, output power, at Unity Gain		
	2150-2450 MHz	MIn. 2 dBm				
- 17-0	Full Band	18 dBm typ., 13 dBm min.		At Unity Gain		
OIP3	850-2150 MHz	19 dBm typ., 16 dBm min.				
OIP2	Тур.	26 dBm		At Unity Gain		
	Min.	24 dBm		At Unity Gain		
Isolation	I/P - O/P	60 dB		Minimum between any 2 ports		
	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 Figure	Full Band	Typical 14 dB, max. 17 dB		Unity Gain, with one input routed to one output		
	850-2150 MHz	Typical 13 dB, max. 16dB		Unity Gain, with one input routed to one output		
Input RF Power		+20 dBm		Absolute maximum		
Spurious	Carrier Related	-65 dBc		Excluding harmonics. max. Carrier level -10dBm		
	Carrier Un-related	-85 dBm		With operatir	With operating frequencies	
	· · ·	Env	vironmental			
Operating Tempera	iture		0 to	o 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		0.05 dB/°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				
	Matrix card	> 100,000				



System Control				
Local Control & Monitoring	HMI			
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)			
Spec. Version	1.3			

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.