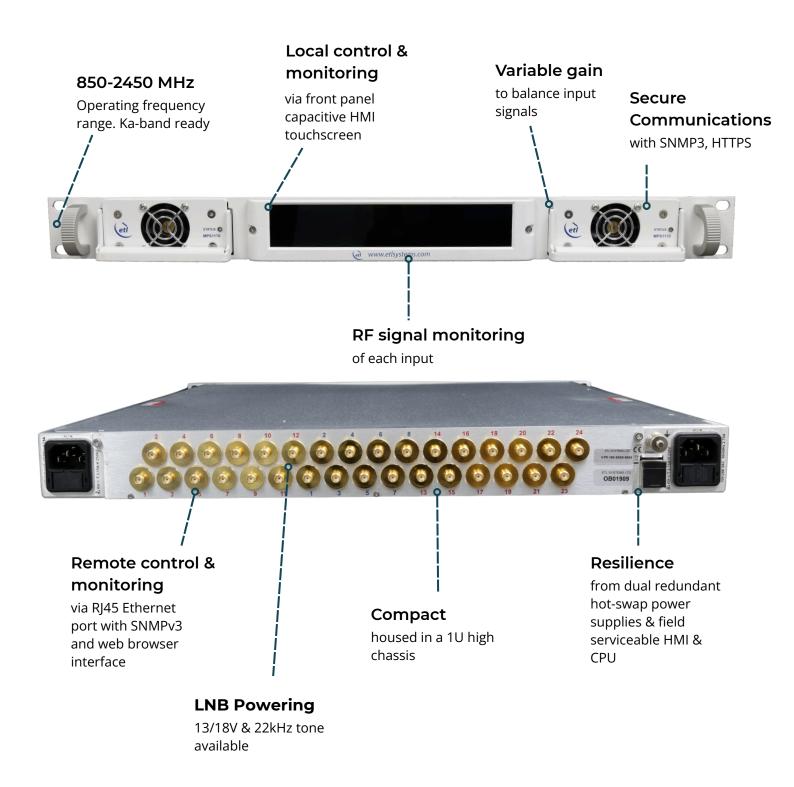


Victor Series Switch Matrix/Router

16 x 16 Distributive L-band

VTR-102 is an extended L-band 16 x 16 distributive matrix in a compact 1U chassis featuring LNB powering and RF Detection.



V1.4 E&OE



		R	F Parameters		
Capacity			Up to 16 in	puts 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)			
LNB Power Option		Settable 13/18V 22KHz 350mA			
RF Detect				n input. For indication only.)
RF Connectors		50 Ω SMA	50 Ω BNC	75 Ω BNC	75 Ω 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 Loss Output Return Loss Gain	Tvp.	18 dB	18 dB	14 dB	14 dB
	Min.	12 dB	12 dB	10 dB	8 dB
	Тур.	20 dB	20 dB	14 dB	14 dB
	Min.	14 dB	14 dB	10 dB	8 dB
	Gain		2 dB		
	Gain Control	0 ± 2 dB 0 to +5 dB		Typical, mean across band Settable at each input	
	Gain Steps	0.25 dB			t each input
1 dB GCP	850-2150 MHz	Min			
	2150-2450 MHz	Min. 4 dB Min. 2 dB		1 dB Gain Compression point, output power, at Unity Gain	
	Full Band			At Unity Gain	
OIP3		Typ. 18 dBm, Min. 16 dBm			
OIP2	850-2150 MHz	Typ. 19 dBm, Min. 16 dBm 26 dBm		At Unity Gain Minimum between any 2 ports	
	Typ.				
	Min.	24 dBm			
	I/P - O/P	60 dB			
	I/P - I/P	75 dB			
O/P - O/P		75 dB			
Group Delay				≤1 ns	
Noise Figure	Full Band	Typical 14 dB, Max. 17 dB		Unity Gain, with one input routed to one output	
	Max.	Typical 13 dB, Max. 16 dB		·	
Input RF Power		+20 dBm		Absolute maximum	
Spurious	Carrier Related	-65 dBc		Excluding harmonics. Max. carrier level -10 dBm	
55411043	Carrier Un-related	-85 dBm		Within operating frequencies	
		Er	nvironmental		
Operating Temper	rature		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 Te	emperature		0.0	05 dB/°C	
			Power		
PSU Power		85-264Vac 50-60Hz		Fused 2A	
AC Consumption		50W		Max. consumption at steady state, no load	
PSU		Dual redundant		Diode OR	
MTBF	Chassis	> 250,000			
	Matrix card	> 100,000			
	IVIALITY CALU	> 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)			
Spec. Version	1.4			

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.