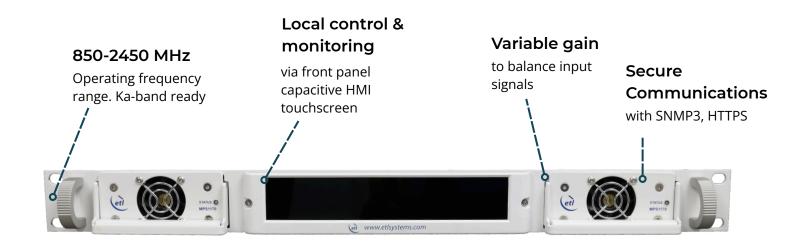


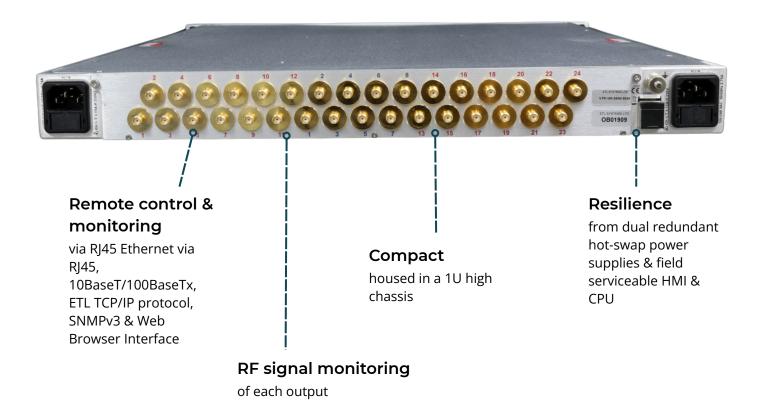


Victor Series Switch Matrix/Router

16 x 16 Combining L-band

VTRC-102 is an extended L-band 16 x 16 combining matrix in a compact 1U chassis with output RF detection.







VTRC-102-1616

		RF	Parameters		
Capacity			Up to 16 inpu	ts x 16 outputs	
Routing		Combining, non-blocking		Many inputs can be routed to each output	
Frequency Range			850-24	I50 MHz	
Switching Time		< 50ms (From receipt of a command to implementation of path change)			
RF Detect		-35 dBm to +10 dBm	RF power detection at e	ach output port (RF repor	ted power, indicative
			01	nly)	
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	Тур.	20 dB	20 dB	14 dB	14 dB
	Min.	14 dB	14 dB	10 dB	8 dB
Output Return Loss	Тур.	20 dB	20 dB	14 dB	14 dB
	Min.	14 dB	14 dB	10 dB	8 dB
Gain	Gain	0 ± 2 dB		Typical, mean across band	
	Gain Control	0 to +5 dB		Settable at each input	
	Gain Steps	0.25 dB			
1 dB GCP	Full Band	+10 dBm		- Output power	
	850-2150 MHz	+13 dBm			
OIP3	Full Band	20 dBm		Typical	
	850-2150 MHz	25 dBm			
	Тур.	36 dBm		2nd order intercept point	
OIP2	Min.	34 dBm			
Isolation	I/P - O/P	60 dB		Minimum between any 2 ports	
	I/P - I/P	75 dB			
	0/P - 0/P	75 dB			
Group Delay		≤ 1 ns			
	Тур.	20 dB (Typical with one input routed to one output)			
Noise Figure	Max.	20 dB (Typical with one input routed to one output) 22 dB (Typical 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	-65 dBC -85 dBm		Within operating frequencies	
	carrier on related		vironmental	Within Operation	
Operating Temper	raturo	5		45°C	
	ature	Indoor use only			
Location		-20°C to +75°C			
Storage Temperature		20 to 90% non-condensing			
Humidity Altitude					
		10,000 feet AMSL (Operational) 30,000 feet AMSL (Storage)			
Gain Stability vs Temperature		0.05 dB/°C			
	·		Power		
PSU Power		85-264Va		Fuse	d 2A
AC Consumption		20W		Max. consumption at steady state, no load	
PSU		Dual redundant		Diode OR	
MTBF	Chassis	> 250,000			
	Matrix card	> 100,000			
		~ 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	1.0			

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.