

Typical applications:TVRO, smaller teleports

and satellite ground

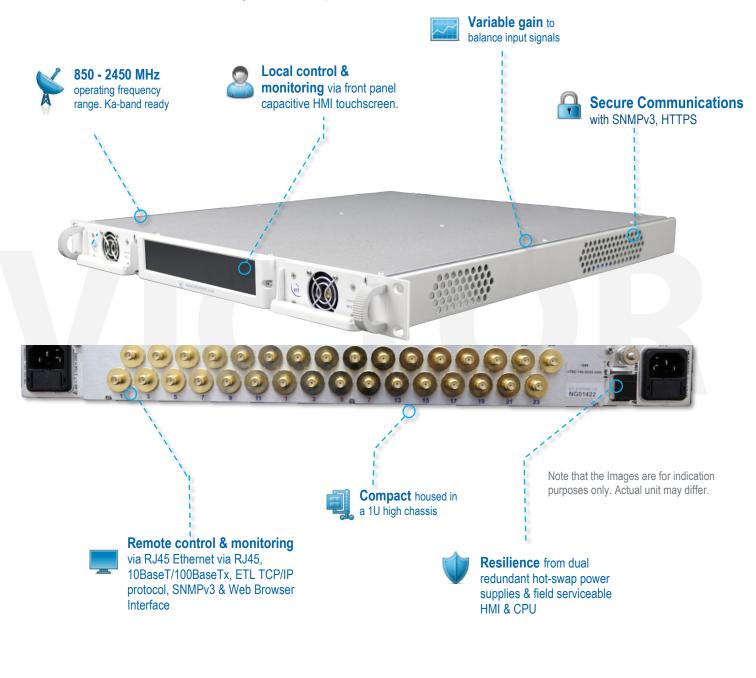
• Oil and gas applications.

RF distribution in cruise liners or luxury yachts.
SNG and outside broadcast trucks.

stations.

24x8 Extended L-band Combining Victor series Switch Matrix / Router

VTRC-100 is an Extended L Band 24x8 Combining Matrix in a compact 1U chassis.





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Model Number: VTRC-100-2408

Technical specifications and operating parameters

RF Parameters							
Capacity		Up to 24 inputs x 8 outputs					
Routing		Combining, non-blocking		Many inputs can be routed to each output.			
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	±1.25 dB	±1.75 dB	±2.0 dB	±2.0 dB		
	850-2150MHz	±1.25 dB	±1.25 dB	±1.5 dB	±1.5 dB		
	Any 36MHz	±0.2 dB	±0.3 dB	±0.5 dB	±0.5 dB		
Input Return Loss	Typical	20 dB	20 dB	14 dB	14 dB		
	Minimum	14 dB	12 dB	10 dB	8 dB		
Output Return Loss	Typical	20 dB	20 dB	14 dB	14 dB		
	Minimum	14 dB	12 dB	10 dB	8 dB		
Gain	Gain	0 ± 1 dB		Typical, mean across band			
	Gain Control	-5 to +5 dB		Settable at each output			
	Gain steps	1.0 dB					
1dB GCP	850MHz	7 dBm					
	1500MHz	7 dBm 1dB Gain Com					
	2150MHz	5 dBm	point, output power Unity Gain.				
	2450MHz	5 dBm					
OIP3	Full Band	Typ. 24 dBm, min 20 dBm		at 0 dB Gain			
UF3	850-2150 MHz	Typ. 24 dBm, min 21 dBm					
OIP2	Typical	33 dBm		at 0 dB Gain			
	Min	30 dBm					
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 Figure	Typical	23 dB at 0 dB Gain, with one input routed to one output.					
	Max	26 dB at 0 dB Gain, with one input routed to one output.			one output.		
Input RF Power		+ 20 dBm		Absolute maximum			
Tech Spec Version		1.3					
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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		40W	Max. consumption at steady state		
PSU		Dual redundant	Diode OR.		
MTBF	Chassis	> 250,000	·		
	Matrix Card	> 100,000			
		System Control			
	Maritalia	LINAL			

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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