

Typical applications:TVRO, smaller teleports

and satellite ground

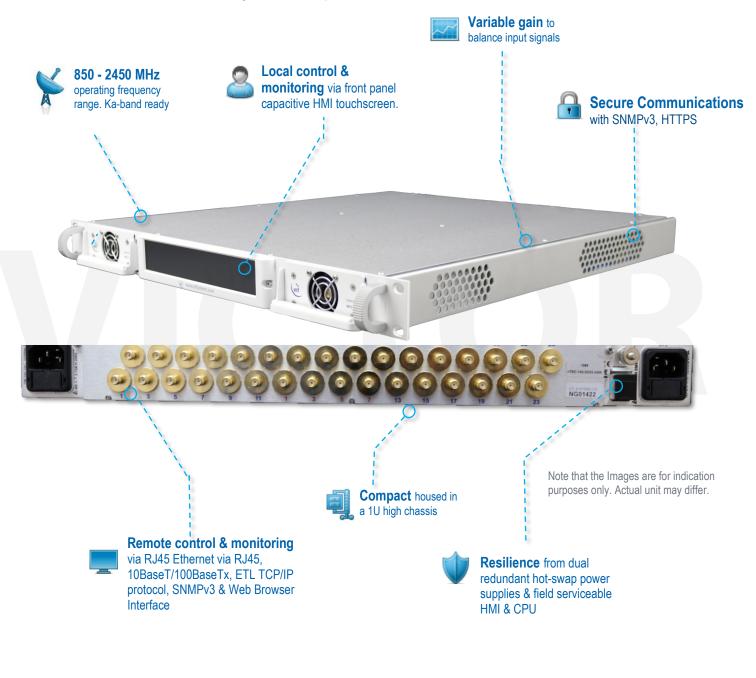
• Oil and gas applications.

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 | | | | | |
| • | | 1 | | | | | |

| 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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