

GENERAL DESCRIPTION

The **VHF RF Matrix** is a radio simulator which operates in VHF frequency range. The unit features 10 RF input/output ports which are connected to the VHF radio equipment. For each RF input/output port, the unit delivers a different RF signal.

The signal level defined in the VHF radio receiving station simulates the system's actual reaction and the displays status to different signal reception conditions (signal level, correctness/incorrectness of the received data).

Two or more stations may participate in one tactical net (different frequencies). In this configuration, more than one station can transmit simultaneously. The VHF radio connections are defined between stations in the same tactical net (the station connections in other tactical nets are irrelevant).



APPLICATIONS

The **VHF RF Matrix** unit can be integrated into a Mobile Communication Simulator that supports communication simulators, for stations participating in tactical nets and communicating via VHF radio equipments.

The stations are located nearby, while the Mobile Communication Simulator simulates as if they are stationed in remote geographical locations. The Mobile Communication Simulator contains up to 4 VHF RF Matrix units (10 RF channels each).

KEY FEATURES

- Supports 10 input/output RF channels
- Provides remote controlled RF attenuation between all inputs/outputs
- Includes a Serial Control Channel connecting to the host computer
- Rack-mounted
- Operation within the defined specifications (including cables and external attenuators) without need for additional calibrations

Note: Specifications are subject to change without notice.

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GENERAL SPECIFICATIONS

Frequency Range	30 to 87.975 MHz
TX. Power (Selectable)	27, 37, 47 dBm \pm 2 dBm (0.5, 5, 50 watts)
RF Signal	DFF (Analog Fixed Freq.), DFF (Digital Fixed Frequency), FH (Freq. Hopping)
Radio Sensitivity	-113 dBm \pm 2 dBm
Power Reception	-113 to -100 dBm \pm 2 dBm -113 to -100 dBm \pm 2 dBm More -92 dBm \pm 2 dBm
Reception Dynamic Range of VHF radio	-120 to -80 dBm (no interference between channels with different attenuation)
Impedence	50 Ohm
Attenuation Resolution	\pm 1 dB
Undamaged P in	50 dBm
Input Supply Voltage Range	18-32 V
Maximum Power Consumption	50 W
Weight	32 kg
Dimensions	19" rack
Operating Altitude	Up to 3000 m
Operating Temperature	-25°C to +55°C
Storage Temperature	-30°C to +85°C

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