

KENTA

The specialist of Radio Frequency Communication systems

KVHF-4013-25

25W VHF Transceiver for Maritime Communication

Full IP – ED 137B compatible

The **KVHF-4013-25** transceiver works in the maritime VHF frequency range from 156MHz to 162MHz and can deliver up to 25W of RF signal into a 50Ω load in transmission mode.

The **KVHF-4013-25** transceiver uses up-to-date technologies and has **native IP capabilities** with the following features:

- Control through a high level **WEB** server (both for settings and monitoring),
- High level Monitoring through **SNMP** (MIB supplied) as standard feature,
- Data input both for voice and DSC fully compliant with the ED137-B standard (VoIP with SIP),
- LCD for local settings & monitoring,
- 3.5mm Jack connector as interface for standard voice accessories (microphones, PTT etc.) for local use

The **KVHF-4013-25** transceiver is especially designed to be installed into a maritime coast station fulfilling the GMDSS requirements.

The **KVHF-4013-25** fulfills the requirements according to **EN 301 929-1** ETSI Standard for stationary sea radio units and guarantees a reliable operation, even in long time stress operation.

The **KVHF-4013-25** transceiver is fully integrated inside a 19" - 2U rack with single phase 230VAC – 50Hz for easy installation on site. In addition an isolated DC input for 24VDC/48VDC is possible as an option .

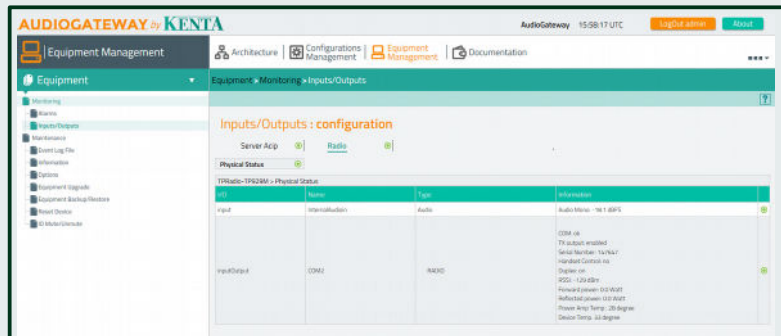
The **KVHF-4013-25** transceiver can be used both for voice and DSC applications (built-in VoIP encoders / decoders as standard, built-in DSC encoder / decoders as an option) and is semi and full-duplex capable.



KVHF-4013-25

General Specifications

Dimensions:	19" – 2U rack
Weight:	15kg
Operating temperature:	0°C to +50°C
Power supply:	230VAC - 50Hz +/-5% Optional : 24/48 VDC
Frequency Range:	156MHz – 162MHz
Number of Channel :	User configurable with channel table
Channel Spacing :	12,5/25kHz
Frequency Stability :	better than +/-2ppm
Operation modes:	Simplex/Semi-duplex/Full duplex External relay in option for use on a single antenna External module (KDUP-4091) for full duplex operation on a single antenna
IP Data Input:	Ethernet (10/100/1000 BaseT RJ45) VoIP with SIP (ED137B compliant)
Control / Monitoring:	Ethernet (10/100/1000 BaseT RJ45) Web Application included (HTTP) SNMP Agent included LCD display for local settings & monitoring
Compliances:	CE approved according to the European EMC Directive 2004/108/EC RTT&E- EMC – European Directives 1999/5/EC EN 301 929-1 ETSI Standard



WEB based control & monitoring software example
VHF Transceiver monitoring page

Analog Audio Connector:

Line in out on 600 Ohm balanced RJ45 connector, squelch and PTT

RF Connectors:

TX out on female N Connector
RX in on female N Connector

Handset Connectors (on front panel):

2 x Jack 3.5mm for microphone and headphones
2 contacts connector for PTT

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Main Ordering Information:

~KVHF-4013-25

25W VHF Transceiver

KVHF-4013-25 Product Datasheet
Specifications subject to change without prior notice
Document with no contractual value

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KVHF-4013-50

50W VHF Transceiver
for GMDSS Coast Station
Full IP – ED 137B compatible

Front Panel View



KVHF-4013-50

TX Specifications

Output Power:	1-50W, by steps fo 1 dB
Power consumption :	165 W on AC, 205 W on DC Standby:25W
Output impedance:	50Ω
Adj. channel power:	<-80dB for 25kHz channels
Conducted/Radiated emissions:	Tx ON <-36dBm for f<1GHz Tx ON <-30dBm for 1GHz<f<4GHz Tx OFF <-57dBm for f<1GHz Tx OFF <-47dBm for 1GHz<f<4GHz
Max. Deviation :	± 2,5kHz for 25kHz channels ± 5kHz for 25kHz channels
Max distortion at 60 % :	< 5 % @ 1kHz
Residual Modulation:	<40dB
AF response:	300 – 3000Hz +6dB/octave pre-emphasis

Options

- External coaxial relay for simplex or semi-duplex operation on a single antenna (to be specified at order)
- External duplexer unit (KDUP-4091 product from KENTA) for simplex or full duplex operation on a single antenna (to be specified at order)
- DC inputs 24VDC or 48VDC (to be specified at order)
- DSC encoder / decoder (software licence)

RX Specifications

Sensitivity at 20dB SINAD :	better than -113dBm
Input impedance :	50Ω
Spurious response:	>80dB
Adj. Channel selectivity:	>80dB for 25kHz channels
Blocking :	>-10dBm
Max distortion at 60 % :	< 2 % @ 1kHz
Max input level for Nominal operation :	>-13dBm
AF response:	300 – 3000Hz +6dB/octave de-emphasis

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50W VHF Transceiver

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