

NEW

VHF 50W



Kenta Transceiver

FOR VHF MARITIME COMMUNICATION
FULL DUPLEX CAPABLE
BASE STATION RADIO
BUILT-IN DSC MODEM
IP BASED

KENTA
— A Nautel COMPANY —

GENERAL SPECIFICATIONS

Frequency Range:	156MHz – 162 MHz
Number of Channels:	All channels of ITU - RR appendix 18 User configurable with channel table
Channel Spacing:	12,5/25kHz
Modulation:	G3E (PM) / G2B (DSC)
Frequency Stability:	Better than 1ppm Typ
Operation Mode:	Simplex/Semi-Duplex/Full Duplex
Protocols:	VoIP (Voice Over IP): EUROCAE ED-137 compliant Control/Monitoring: Web (HTTP), SNMP, FTP
Ethernet Interfaces:	2 x RJ45 Ethernet 10/100/1000 BaseT (For redundancy or separate VoIP & Control)
Analog audio Interface:	RJ45 Balanced 600Ω Analog In/Analog Out Squelch and PTT
RF Interfaces:	Tx: 50Ω N Female Rx: 50Ω N Female
Power Supply:	Main: 110/230VAC +/-10%, 47-63Hz Optional redundant: 24/48 VDC
Power Consumption:	Tx: 190VA Rx/Standby: 40VA
Operating Temperature:	-20°C to +55°C
Dimensions:	19" – 2U rack
Weight:	7kg
Compliances:	CE approved according to the European RED (European directives 2014/53/EU) Radio: ETSI EN 301 929 V2.1.1 (2017-03) EMC: ETSI EN 301 489-1 V2.2.3 (2019-11) EN 55032 : 2015 / EN55035 : 2017 Safety: EN 60215/A2 :1995 DSC: ITU-R M.493-15

RX SPECIFICATIONS

Sensitivity at 20dB SINAD:	< -113dBm (0,5 μ V)
Adjacent Channel Selectivity:	> 70dB (12,5kHz & 25kHz channel)
Spurious Response:	> 80dB (12,5 & 25kHz channel)
Intermodulation Response:	> 85dB (12,5 & 25kHz channel)
Blocking or Desensitization:	< -18dBm (28,5mV)
AF Distortion:	< 5% (12,5 & 25kHz channel)
AF Response:	300 - 2550Hz (12,5kHz channel) 300 - 3000Hz (25kHz channel)
Spurious Emissions:	< 2nW (Frequency < 1 GHz)
Squelch Operations:	None/RSSI/SINAD

TX SPECIFICATIONS

RF Output Power:	1-50W (adjustable in 1W steps)
VSWR:	1: infinity
Adjacent Channel Power:	> 70dBc (12,5kHz channel) > 80dBc (25kHz channel)
Frequency Deviation:	Max \pm 2,5kHz (12,5kHz channel) Max \pm 5kHz (25kHz channel)
AF Distortion:	< 5% (12,5 & 25kHz channel)
AF Response:	300 - 2550Hz (12,5kHz channel) 300 - 3000Hz (25kHz channel)
Spurious Emissions:	< 0,25 μ W (Frequency < 1 GHz)
Duty Cycle:	100% continuous operation

OPTIONS (to be specified at the order)

External coaxial relay for simplex or semi-duplex operation on a single antenna

External Automatic duplexer unit for simplex or full duplex operation on a single antenna

DSC encoder (software license)

DSC decoder (software license)

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