

# KENTA

The specialist of Radio Frequency Communication systems

## KTX-2012-1000

1kW PEP MF/HF Transmitter for GMDSS Coast Station

The **KTX-2012-1000** transmitter works in the MF/HF frequency range from 1.6 to 30MHz and can deliver up to 1 kilowatt PEP of RF signal into a 50Ω load. The **KTX-2012-1000** transmitter uses up-to-date software defined radio technologies:

- The RF signal is generated by a digital synthesizer with DSP and DDS,
- Use of last generation of MOS-FET solid-state power amplifiers,
- An IP access for monitoring and remote control is present in addition to the common RS232/485 access,
- A digital audio over IP access is present in addition to the traditional analog access (VoIP),
- Unlimited number of pre-programmable channels
- BITE on module level
- Web based application software for remote control & monitoring. SNMP Agent in option (TRAP supported)

The **KTX-2012-1000** transmitter is specially designed to be installed into the maritime coast station fulfilling the GMDSS requirements. It includes one 19" - 32U cabinet (without options), the power supply, the synthesizer, the amplifier and the harmonic filter for an easy installation on site. The main power supply is single phase from 100/240VAC - 50/60Hz. The transmitter is equipped with internal protection against excess of VSWR, voltage, current and heat sink temperatures.

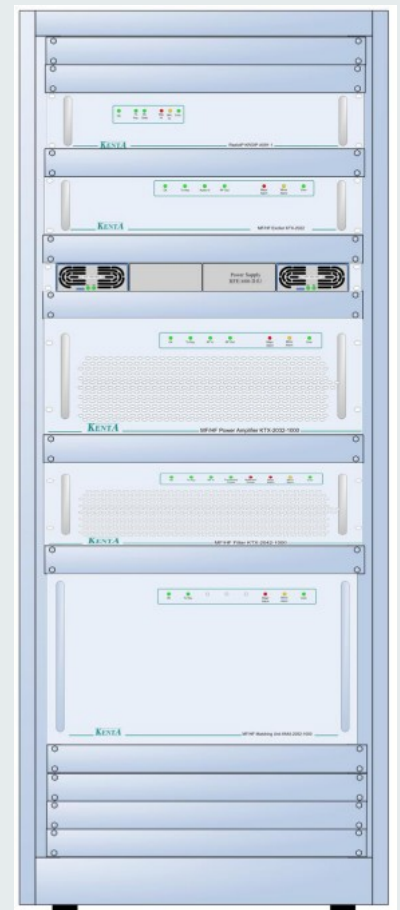
The **KTX-2012-1000** transmitter can be used for **Voice, DSC, NAVTEX** (4 209.5kHz) or other purpose (USB, Digital etc.)

As an option, the **KTX-2012-1000** transmitter can control the external **KTU-2052-1000** Antenna Tuning Unit (ATU), if the transmitting antenna is not a wide band one.

## KTX-2012-1000

### Technical Specifications

<b>Dimensions:</b>	19" - 29U Cabinet – 1kW version without option
<b>Operating temperature:</b>	-20°C to +55°C
<b>Power supply:</b>	Single Phase 100/240Vac - 50Hz +/-10%
<b>Frequency Range:</b>	1.6 to 30MHz
<b>Max. Power output:</b>	1kW PEP on 50Ω N-Connector
<b>Operating modes:</b>	J3E (USB & LSB), H3E, F1B (DSC),CW
<b>Frequency Precision:</b>	< 10Hz
<b>Frequency Stability:</b>	1ppm typical; < 0.1 ppm with GPS synchronization module (optional)
<b>Carrier suppression:</b>	> 60dBc
<b>Intermodulation:</b>	typically < -30dB on PEP
<b>Spurious and harmonics:</b>	typically < -60dB on PEP
<b>Hum and noise:</b>	typically < -52dB on PEP
<b>Audio Input:</b>	Analog -10dBm / 600Ω on RJ45 connector VoIP (SIP) on Ethernet (10/100BaseT RJ45) compliant with the ED137B standard
<b>Control / Monitoring:</b>	RS232/485 on connector SUBD9M Web Application included (HTTP/IP). SNMP Agent (Option) Protocols : HTTP ; HTTPS ; FTP ; TFTP ; UDP ; RTP ; TCP ; NTP ; SNTP, SNMP
<b>Compliances:</b>	ITU and IMO recommendations; ETSI EN 301 489 RTT&E- EMC – European Directives



### Main Ordering Information:

~KTX-2012-1000

1kW PEP MF/HF Transmitter

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KTX-2012-1000 Product Datasheet  
Specifications subject to change without prior notice  
Document with no contractual value