

QRP WITH AUTHORITY

The legend lives on from the designer who brought you the original Argonaut



LOW POWER + TEN-TEC PERFORMANCE = FUN

- Modes: CW, LSB, USB, AM, Digital
- Silky Smooth QSK
- 5-50 wpm Internal CW Keyer
- Typical receiver sensitivity: < 1 uv
- DSP Selectivity: 100 built in DSP filters from 100Hz.
- Dynamic Range: 91db@2KHz
- Display: Multicolor back lit LCD
- RF Output power: 1 to 10 watts
- Frequency Coverage: 160 through 10 meters with the exception of 60 and 12 meters.
- Power Requirements: 9.5-14 Volts DC (550ma on receive, 3 amps at 10 watt TX)
- Dual "VFOs" for single or split operation
- Speed Sensitive VFO tuning rate
- Software Defined Buttons
- Standard 2.5 Khz roofing filter included
- Flawless Digital Mode operation with the TEN-TEC Model 712 USB Sound Card Interface
- Easily converts to 100 Watt output power with the TEN-TEC Model 418 Linear Amplifier.
- Famous TEN-TEC Crystal Clear Audio

Find out more
www.tentec.com
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GENERAL

Headphone Jack: 1/4" stereo, accepts mono or stereo on rear panel
External CW Key Jack: 1/8" stereo, accepts mono or stereo on rear panel
Aux DC Output Connector: RCA 0.5A max connected to DC Power
ACC Din Connector: 8 PIN DIN Connector-Line in, Line out, Aux PTT, Ext Key, Clock, Data, Enable, Ground.
DC Power Connector: AMP MATE-N-LOCK, 2 pin
Tuning Steps: 10, 100, 1000, speed sensitive, VFO Lock
Frequency Stability: +/- 0.5 PPM over operating temperature
Modes: USB, LSB, CW, (AM optional)
Memories: 100
Supply Voltage: 9.5 – 14 Volts DC
Dimensions (HxWxD): 2.25"x6.5"x7.6" (excluding knobs and connectors)
Weight: 3.6 pounds
PC Control Port: USB
Display: Custom FSTN monochrome LCD display with variable color background
Frequency Stability: +/- 0.5 PPM over operating temperature of the first LO frequency.

TRANSMITTER

RF Power Output: Adjustable, 1-10 watts, +/- 1 dB
CW, SSB, AM, AFSK, PSK
Duty Cycle: 100% for up to 10 minutes @ 10 watts
CW/SSB TX Bandwidth: 2.9kHz Filter
AM TX Bandwidth: 6 kHz Optional Filter
Microphone Input Impedance: > 10k-ohms at 1 kHz
SSB Carrier Suppression: >60 dB
Unwanted Sideband Suppression: >60 dB at 1 kHz
T/R Switching: PTT or VOX on SSB, AM. QSK on CW
CW Keyer Type: Internal Curtis Mode A or B, selectable
CW Rise and Fall Time: 5 ms
CW Offset: adjustable
CW Keyer Speed: 5-40 WPM, adjustable weighting
Current Drain: 3 amps at 10 watts
Third Order Intermod: Better than 30 dB below peak
SSB Generation: DSP Generated
of DSP generated TX Bandwidth: 2 built-in DSP filters – automatically selected based on mode - 2.9 kHz for CW and SSB, (6 kHz for AM option)

Note: the optional 6kHz filter is required for AM transmit

RECEIVER

SSB Sensitivity: Better than 0.7uV (0.5 Typ), 2.4KHz, 10 db SINAD Preamp off
AM Sensitivity: Better than 4 uV, (2.0uV Typ) 30% Mod, 6Kh BW, 10 dB SINAD Preamp off
Selectivity IF1: 2.9 Khz standard, 9.0018 Mhz, 2 options positions
Selectivity IF2: 30 Khz Lowpass filter
Selectivity, DSP IF: 100 built-in DSP filters from 100 – 6000Hz BW
Third Order Intercept Point (IP3): 15dBm@20KHz tone separation/2.9 kHz roofing filter, 20dBm@ 2kHz separation/700Hz Roofing filter, S5 method, preamp off
IMD3 Dynamic Range: Typical 98dB/20kHz, 98dB/2kHz,500 Hz BW,calculated 2/3(IP3-Noise Floor), preamp off
Blocking Dynamic Range: 138dB/20kHz, 140dB/2kHz, 600 Hz BW, RF Gain @ 12 o'clock, preamp off LO Phase Noise: 124 dBc/Hz @ 20 kHz, 114dBc/Hz @ 2 kHz
Noise Floor: Typical -138dBm/500Hz BW/Preamp on, -128dBm /500Hz BW preamp off
IF Frequencies: 1st: 9.0018Mhz, 2nd : 22.2kHz ,3rd : 0Hz (DSP)
IF REJECTION: Typ 74dB
1st IF Image Rejection: Typ 59 dB
2nd IF Image Rejection: Typ 69 dB
Other spurious Response: Rejection: > 80dB
Birdies: Typically less than -100dBm equivalent (no more than 5 birdies greater than -100 dBm equivalent)
Pass Band Tuning: +/- 2.1 kHz, 5 Hz steps. Small dead zone for centering
Preamp: Nominal 12 dB
Audio Output: 1.3 Watts into 8 ohm, <3% THD
RIT Range: +/- 8.2 kHz
RIT Step Size: 10 Hz
S-Meter Reference: S9= 50uV RMS
RX Headphone Output: designed for 16-32 ohm impedance headphones. Usable at 8 ohms.
AUTO NOTCH: IF DSP, multi-tone
RX NOISE REDUCTION: IF DSP, adjustable
NOISE BLANKER: IF DSP, adjustable
RX Current Drain: 550 MA

OPTIONS

4 Pole Roofing Filters: 700 Hz, 6 kHz
702 Dynamic Mic
418 Solid State 100 Watt Linear Amplifier
712 Digital USB Sound Card Cable

All measurements are typical. Results will vary based on different Test Environment, Tools, and Test Methods. Specifications are subject to change.

Find out more
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