

**New!**  
FROM  
**TEN-TEC**

# 6N2

**ALL MODE  
VHF TRANSCEIVER**

Real innovation in an all mode VHF transceiver was long overdue! For years now, there were no affordable choices either for the new ham who wanted only six and two meters or the experienced ham who already owned several perfectly good HF rigs and didn't need another one just to get six and two all mode. TEN-TEC decided to do something about it and is proud to introduce the new 6N2.

This is the best time in a decade to get on six meters. The sunspot cycle will deliver predictable F-layer propagation for the next 2-3 years and pundits predict the band will be the hottest its been since the 1950s. Six meters also has a virtual monopoly on E-skip propagation letting you work stations 1000s of miles away with a few watts output and simple antennas. The popularity of HF/VHF combination rigs has put more folks on both six and two meter SSB than at any time in the history of amateur radio. There couldn't be a better time to have a 6N2 and join in the fun.

The 6N2 is amateur radio's first IF-DSP design in an all mode VHF transceiver. TEN-TEC's DSP expertise brings all the benefits of DSP down to a price the average ham can afford. Look what the 6N2 does for you:

- FM, SSB and CW operation on both six and two meters
- 30 IF-DSP filters built-in! Instantly select the best one for band conditions at the twist of a knob. 200-1000 Hz filters in 50 Hz steps, 1000-2800 Hz in 100 Hz steps. One could only dream of such performance before IF-DSP made it possible.
- Doubles as your main FM rig, in the shack or mobile
- Leave antennas for both bands connected at all times. 6N2 knows which antenna to use.
- 20 watts output on each band
- Drives microwave transverters

The 6N2 gladly does double duty as your main 2 meter FM rig. Standard repeater splits for either band. Odd splits are easy, too. 100 memories keeps those FM repeaters handy. Memories also retain band, mode, split and even CTCSS tones! Both Memory Scan and Band Scan are at your fingertips, including Memory Lockout to skip over busy channels.

Wish to run linears on each band? Separate keying lines are provided so 6N2 automatically keys only the one for the selected band. Output power is variable from 20 watts down to 1 watt at the front panel. You'll transmit the exact drive needed by your linear, monitored by the built-in front panel wattmeter. No other VHF transceiver is this versatile.

Microwave enthusiasts can drive transverters from the special low level output on 2 meters. Rear panel switch provided to minimize "cable swap" for multiple bands. Several more features round out this all mode rig: Dual VFO's with SPLIT mode, all mode squelch, RIT, and for the weak signal CW enthusiasts, TEN-TEC's legendary, silky smooth QSK.

Until now, multiband all mode VHF transceivers were priced out of reach. TEN-TEC's new 6N2 delivers both the benefits and tremendous cost savings of IF-DSP to every ham.

**AVAILABLE - FALL 1999**

**PRICED UNDER \$800**

## GENERAL SPECIFICATIONS

**MODES:** LSB, USB, CW, FM

**FREQUENCY RANGE:** 50-54 MHz, 144-148 MHz

**DISPLAY:** 7 segment LEDs for main and secondary

**DUAL VFOs** with SPLIT mode

**OFFSET TUNING:** +/- 10 kHz receive

**FM REPEATER OFFSETS:** standard for 6m and 2m. Programmable for odd splits

**CTCSS:** built-in, encode only

**MEMORIES:** 100

**ANTENNA:** 50 ohms unbalanced, separate SO-239 output connectors for 6m and 2m

**POWER REQUIRED:** 1A receive, 6A transmit @ 12-14 VDC

**CONSTRUCTION:** 3 epoxy glass PC boards, molded front panel, aluminum chassis, texture painted steel top and bottom

**DIMENSIONS:** HWD 2.75" x 8.5" x 8.75" (7 x 21.6 x 22.2 cm)

## TRANSMITTER

**RF OUTPUT:** 1-20 watts, ALC stabilized

**MICROPHONE INPUT:** 200 to 50k ohms. 4 pin, front panel connector accepts microphones with 5 mv (-67 dB) output. Polarizing voltage provided for electrets.

**T/R SWITCHING:** PTT on SSB, QSK on CW

**FM DEVIATION:** +/- 5 kHz

**METERING:** forward power

**SSB GENERATION:** DSP generated

## RECEIVER

**SENSITIVITY:** .15 uv typical for 10 dB S+N/N @ 2.4 kHz bandwidth, SSB mode

**SELECTIVITY:** 30 filters built-in; 200-1000 Hz in 50 Hz steps, 1000-2800 Hz in 100 Hz steps. All 1.5:1 shape factor or better.

**NOISE FIGURE:** 7 dB

**S-METER:** Calibrated to 50 uv at S-9

**I-F FREQUENCIES:** 1st I-F 45 MHz, 2nd I-F 450 kHz, 3rd I-F 14.5 kHz

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