

TORTOISE™ Multi-Band Transmitter

Tortoise Multi-Band Transmitter is a portable, rugged, high-power transmitter system comprised of dual, independent modules giving the user freedom to transmit on any 2 unique frequency bands simultaneously without the need for expensive and bulky additional transmitters. Tortoise features two dynamically controlled Class AB amplifiers for the cleanest signal output and VSWR protection. By covering 3.5 GHz, Tortoise supports a 5G build-outs using CBRS for licensees under the FCC's 5G FAST Plan.

Tortoise features built-in thermal overheat protection circuitry with quad cooling fans to ensure against overheating during operation. Remote adjustments include power level, channel or frequency assignment and transmit On/Off via USB connected to any PC. Tortoise simulates CW signals complete with adjustable step sizes, channel bandwidth and user settable ID Cell, Segment and frame lengths.

3G/4G/5G

25 WATTS

1900 MHz

3.5 GHz

Choose a combo of 3G / 4G / 5G Tx modules for a variety of stimulus test signals



FEATURES

- CW module combos include 3G/4G/5G (non-mm wave frequencies)
- Two independent CW transmitter module bays
- Weighs under 20 pounds
- Water resistant, ruggedized plastic case
- Class AB power amplification up to 25 watts per band
- Quad cooling fans with built-in thermal amplifier overheat protection
- Power levels, channels and frequencies controlled from the front panel or included PC software
- VSWR antenna protection and internal power meter measurement for precise output power control
- All parameters adjustable remotely via USB or directly in 0.1 dBm increments over 17 dB range

TORTOISE™

CW BAND CONFIGURATIONS

TORTOISE SINGLE BAND

170 - 220 MHz	25 Watts
400 - 500 MHz	25 Watts
690 - 960 MHz	25 or 50 Watts
1700 - 2200 MHz	25 Watts
3400 - 3700 MHz	10 or 20 Watts

CHOOSE BETWEEN
CW BAND
CONFIGURATIONS

TORTOISE DUAL BAND

170 - 220 MHz	25 Watts
400 - 500 MHz	25 Watts
690 - 960 MHz	25 or 50 Watts
1800 - 2200 MHz	25 Watts
3400 - 3700 MHz	10 or 20 Watts



TORTOISE WIDE BAND - SINGLE BAND

540 - 2500 MHz	25 Watts
690 - 2700 MHz	25 Watts

TORTOISE WIDE BAND - DUAL BAND

540 - 2500 MHz	25 Watts
690 - 2700 MHz	25 Watts

TECHNICAL SPECIFICATIONS

Selectable step sizes of 2.5 kHz, 5 kHz, 15 kHz, 20 kHz, 25 kHz, 50 kHz and 200 kHz

*Custom frequency bands available upon request

DISPLAY	640 x 240 LCD (1/2 VGA)
STABILITY	Stability better than 1.5 PPM for first year, \pm for 1 PPM for aging
OUTPUT POWER	Continuous adjustable power output from 30 dBm to 47 dBm with \pm 0.5dBm accuracy & 0.1dBm resolution
OUTPUT CONNECTOR	Type 'N' female, 50 Ohm
SPECTRAL PURITY PHASE	-78 dBc/Hz @ 10 kHz offset
NOISE TYPICAL at 2GHz	-105 dBc/Hz @ 100 kHz offset
REMOTE CONTROL	Control via USB connected to any PC
SPURIOUS OUTPUT	> 50 dBc
HARMONICS OUTPUT	> 25 dBc
OPERATING TEMP	-20 degrees C to 35 degrees C
POWER	Internal power supply 100-240 VDC, 5 Amp
INCLUDES	2 Antennae output ports (Type N female) and PC Software
OPTIONS	Pure sine wave power inverter 600 watts 12 VDC to 120 VAC power Pure sine power inverter 600 watts 12 VDC to 120 VAC power

Cellular • CBRS • WiMAX • LTE • IS-95 CDMA • LMR • Paging • SMR • GSM • ISM • WCS • iDEN • AMPS • PACS • ETACS • IS-136 • AWS

+1 732-548-3737
www.bvsystems.com
sales@bvsystems.com

