

Tortoise

Dual-Band Transmitter

Tortoise™ is a portable, rugged, high-power transmitter system composed of dual independent, transmitter 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 A amplifiers for the cleanest signal output and VSWR protection. 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, RS-232 and Ethernet from anywhere. An optional **WiMAX OFDMA MODULATOR** allows Tortoise™ to simulate WiMAX base station transmissions complete with adjustable step sizes, channel bandwidth and user settable ID Cell, Segment and frame lengths.

Optional
**WiMAX
Modulator**

**Available
NOW**



FEATURES:

- Choose your module combinations for Cellular, PCS, Paging, ETACS, iDEN, SMR, ISM, LMR, UMTS, GSM, LTE, WiMAX, Wi-Fi, AWS & more
- Two independent transmitter module bays
- Pure spectrum Class A power amplifier with adjustable power output ± 0.1 dB over 32 dB range
- Optional WiMAX Modulator for base station simulation
- Weighs under 20 pounds
- Water resistant, rugged 18" x 15" x 6" ABS plastic case
- Power levels, channels and frequencies are controlled from the front panel with soft-keys
- 640 x 240 reflective LCD (1/2 VGA)
- VSWR antenna protection and internal power meter measurement for precise output power control
- Quad cooling fans with built-in thermal overheat protection for amplifier
- Battery backed-up SRAM stores all user selectable parameters in the event of a power loss
- All parameters adjustable remotely via Ethernet, USB or Serial interface

Call us today for more information:
TOLL FREE 1-888-737-4287 / (outside U.S. & Canada) +1 732-548-3737
www.bvsystems.com
sales@bvsystems.com

**BERKELEY
VARITRONICS
SYSTEMS**
Clarifying RF
Providing wireless solutions for over 35 years.

Tortoise™ DUAL-BAND TRANSMITTER



SPECIFICATIONS

*Each Tortoise may contain any two of the supported module configurations below:

FREQUENCY RANGES:

Cellular, WiMAX, LTE, LMR, Paging, SMR, GSM, ISM, WCS, iDEN, AMPS, PACS, ETACS, IS-136, AWS and more
Frequencies available in 25 & 45 Watt (frequencies in green) or 10 & 25 Watt (frequencies in red) output power:

700 MHz
850-870 MHz
800-900 MHz
850-900 MHz
930-970 MHz

25 or 45 Watts

1.805 - 1.880 GHz
1.85 - 2.10 GHz
2.10 - 2.17 GHz
2.3 - 2.36 GHz
2.4 - 2.49 GHz
2.5 - 2.7 GHz
3.4 - 3.7 GHz (10 watt only)

10 or 25 Watts

Tuneable in frequency step sizes of 2.5 kHz, 5 kHz, 10 kHz, 15 kHz, 20 kHz, 25 kHz, 50 kHz and 200 kHz.

*Please inquire about custom frequency modules not listed above for Tortoise.

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 \pm 0.1 dB from 24 dBm to 46.5 dBm
POWER ADJUSTMENTS	Continuously adjustable via rotary knob or direct keypad entry in .1 dBm increments
REMOTE CONTROL	Control via USB, Ethernet or Serial port
SPURIOUS OUTPUT	> 55 dBc
HARMONICS OUTPUT	> 40 dBc
POWER	100-240 VAC / 5A or 12-13.2 VDC / 20 A with 1 module @ 2.5 amps (2 modules @ 5.0 amps)
INCLUDES	2 Antennae (Type N female outputs) and PC CD-ROM Software

OPTIONAL MODULATION:	WiMAX 802.16e MODULATOR
Modulation Scheme	OFDMA
Channel Bandwidths	5 / 10 MHz
Frequency	2.5 - 2.7 GHz and 3.4 - 3.7 GHz
Step Size	10 / 25 kHz
Power Output	10 Watt Class A Output
User Selectable	ID Cell, Segment and Frame Length (2 - 20 mSec)



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