

FEATURES

- Two independent CW transmitter module bays
- Optional LTE, UMTS, CDMA IS-95 or WiMAX Modulation
- Weighs under 20 pounds
- Water resistant, ruggedized plastic case
- Class AB power amplification up to 50 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



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 2
CW BAND CONFIGURATIONS

TORTOISE DUAL BAND

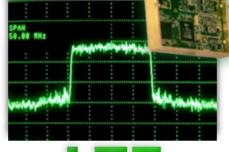
170 - 220 MHz 25 Watts 400 - 500 MHz 25 Watts 690 - 960 MHz 25 or 50 Watts 1800 - 2200 MHz 25 Watts 3400 - 3700 MHz 10 or 20 Watts

TORTOISE WIDE BAND - DUAL BAND

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

MODULATION SCHEMES







UMTS

LTE

CDMA

WiMAX Mobile 802.16e, WiMAX Fixed 802.16d and custom modulation schemes are also available.

All modulation schemes have a maximum power output of 10 Watts. Wideband not supported. Ask for custom frequencies.

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, ± for 1 PPM for aging

OUTPUT POWER Continuous adjustable power output from 30 dBm to 47 dBm with +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 Modulation schemes (WiMAX, UMTS, LTE or CDMA)

Pure sine power inverter 600 watts 12 VDC to 120 VAC power

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



