

GAZELLE



QUAD MODULAR DRIVE-STUDY RECEIVER SYSTEM

GAZELLE™ is a high performance, modular receiver system that utilizes a high speed bus containing up to 4 independent CW receiver modules all simultaneously logging the RF energy needed to plot out coverage maps. Gazelle™ is designed from the ground up to provide hot-swappable receiver modules for in-the-field installation and includes an internal 12-channel/satellite GPS receiver. Gazelle's unique, modular high-speed receivers exceed the distance based averaging required to meet 40 lambda criteria essential for critical propagation analysis and drive studies.



GSM

LTE

WiMAX

Cellular

ISM

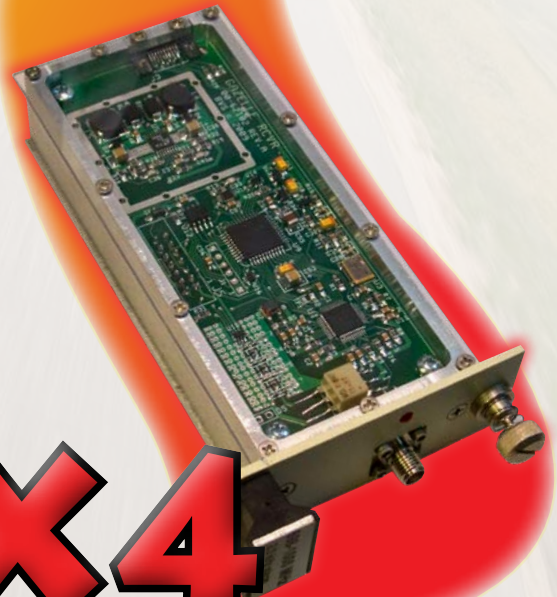
AWS

PCS

WCS

FEATURES

- CW band support including WiMAX, LTE, GSM, LMR, PCS, ISM, WCS, AWS & more
- Quad modular CW receivers allow users to swap various bands while in the field
- High measurement rate over Dr. Lee's recommended 40 lambda
- Internal 12-channel/12 satellite GPS receiver with active antenna
- Custom user-created channel lists
- User selectable sampling rates and IF bandwidth
- Captured data output via USB ports for connectivity to any PC



X4

Up to 4 Receivers Simultaneously

+1 732-548-3737

www.bvsystems.com

sales@bvsystems.com



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QUAD MODULAR DRIVE-STUDY RECEIVER SYSTEM

FREQUENCY RANGE

120 MHz - 6000 MHz (CW only) Stock sub-band receivers:

120-180 MHz, 6/12 kHz IF, 250 Hz step

400-512 MHz, 6/12 kHz IF, 250 Hz step

690-960 MHz, 6/12 kHz IF, 250 Hz step

800-960 MHz, 12.5/25 kHz IF, 250 Hz step

1700-2200 MHz, 6/12 kHz IF, 250 Hz step

2200-2700 MHz, 6/12 kHz IF, 250 Hz step

3300-3800 MHz, 6/12 kHz IF, 250 Hz step

GENERAL SPECIFICATIONS

Frequency Resolution:

250 Hz

Frequency Accuracy:

± 1.5 ppm internal reference, Aging: ± 1 ppm per year

Dual Conversion:

433 MHz first IF, 455 kHz second IF

IF Bandwidth:

6 kHz, 7.5 kHz, 10 kHz, 12 kHz, 15 kHz, 20 kHz, 25 kHz, 30 kHz
(each Receiver has 2 selectable IF filters)

Sensitivity:

-120 dBm for 12 kHz IF BW

Adjacent Channel Rejection:

> 40 dB

Stability:

± 0.25 PPM from 0 to 50 degrees C

Phase Noise:

10 kHz offset -89 dBc typical

100 kHz offset -115 dBc typical

1 MHz offset -125 dBc

Noise Figure:

7 dB typical for 12 kHz IF BW and 5 dB SNR

Image Rejection:

60 dB typical, 40 dB minimum

Measurement Range:

-120 dBm to -30 dBm, 0.1 dB resolution

Accuracy:

± 1 dB, -30 dBm to -105 dBm

± 1.5 dB, -106 dBm to -120 dBm

RF Input:

SMA 50 Ohms, 1.8:1 VSWR maximum

Maximum RF Input without Damage:

+13 dBm

LO Level at RF Input:

-70 dBm maximum

Operating Temperature:

-5 degrees C to 45 degrees C

Relative Humidity:

Up to 90%, non-condensing

Remote Interface:

USB Port, RJ-45

GPS Receiver:

Internal 12-Channel/Satellite Differential GPS Navigation with active antenna

Power:

External 12-16 VDC @ 1000 mA

Weight:

9 lbs. fully loaded

Dimensions:

4" H x 10" W x 12" L

INCLUDES

Antenna:

SMA (50 ohms)

DC Power Supply:

12 VDC @ 5 Amps

PC Software:

Gazelle Control PC Software

Custom frequency bands available upon request

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