

# 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 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. The Gazelle is a low-cost test system ideal for advanced pre-buildout drive-studies for optimizing WiMAX and LTE networks.



**GSM**

**LTE**

**WiMAX**

**Cellular**

**ISM**

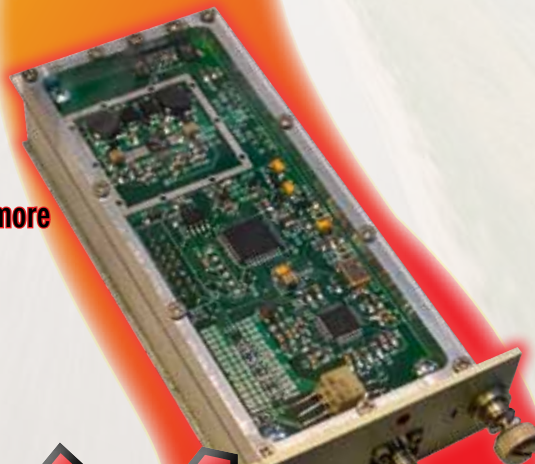
**AWS**

**PCS**

**WCS**

### FEATURES

- Multiple band support including WiMAX, LTE, GSM, LMR, PCS, ISM, WCS, AWS & more
- Quad modular 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

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

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

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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, 12/6 kHz IF BW

400-500 MHz, 12/6 kHz IF BW

690-810 MHz, 12/6 kHz IF BW

810-960 MHz, 12/6 kHz IF BW

### GENERAL SPECIFICATIONS

Frequency Resolution:	250 Hz
Frequency Accuracy:	$\pm 1.5$ ppm internal reference, Aging: $\pm 1$ 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 SNR 5 dB and 12 kHz IF BW
Adj. Chan. Rejection:	>45 dB
Stability:	$\pm 0.25$ 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:	80 dB typical, 50 dB minimum
Adjacent Channel Rejection:	50 dB typical, 40 dB minimum
Measurement Range:	-120 dBm to -30 dBm, 0.1 dB resolution
Accuracy:	$\pm 1$ dB, -30 dBm to -105 dBm $\pm 1.5$ 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

### OPTIONS

Custom frequency bands available upon request

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