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.

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

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
www.bvsystems.com
sales@bvsystems.com
**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:** ± 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 SNR 5 dB and 12 kHz IF BW  
- **Adj. Chan. Rejection:** >45 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:** 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:** ± 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

**OPTIONS**  
Custom frequency bands available upon request