DATARADIO ®

By CalAmp

Vanguard 3G™
Cellular Broadband Router

For over 25 years, Dataradio products have delivered private wireless connectivity for mission critical applications. With the introduction of the Vanguard 3G, we are expanding our portfolio to include cellular connectivity. Vanguard 3G was built tough to provide reliable wide area CDMA or GSM cellular connectivity optimized for high speed, mobile environments with demanding data requirements.

CDMA models leverage high-speed EV-DO Rev 1 technology to provide data access at speeds up to 3.1 Mbps with backward compatibility to EV-DO Rev 0 and CDMA 1x technology. **GSM models** leverage high-speed HSUPA technology to provide data access at speeds up to 7.2 Mbps with backward compatibility to HSDPA, UMTS, EDGE and GPRS technology.

This intelligent broadband router incorporates a highly sensitive 16-channel GPS receiver and an intelligent algorithm that offers outstanding receive sensitivity and improved accuracy, integrity, and availability of GPS signals - even when the vehicle is off. What's more, an optional built in WiFi access point allows your tethered devices to remain connected even when you leave the vehicle.

Key Benefits

- Built-in WiFi option extends the wireless network beyond the vehicle with tethered connectivity to handheld devices or lap top

- Integrated local and remote GPS provides location info for AVL and for local mapping

- Serial and Ethernet interfaces simplify deployment and ease technology migration

- Secure, remote management with password protected configuration for easy upgrades and maintenance

- Rugged enclosure with a wide operating temperature range suitable for trunk mounting

High Speed

Long Range

Ruggedized

Safe/Secure

Diversity

Connectivity

CalAmp ®

Vanguard 3G Specifications

CDMA Technology/Bands

- EV-DO Rev A (IS-856-A)
  800 MHz Cellular; 1900 MHz PCS
  Downlink up to 3.1 Mbps Uplink up
  1.8 Mbps

- 1xEV-DO Rev 0 (IS-856)
  800 MHz Cellular; 1900 MHz PCS
  Downlink up to 2.4 Mbps Uplink
  153.6 Kbps

- 1xRTT (IS-2000)
  800 MHz Cellular; 1900 MHz PCS
  Downlink up to 153.6 Kbps Uplink up
  to 153.6 Kbps

GSM Technology/Bands

- UMTS/HSUPA
  Quad-band 850/900/1800/1900
  Downlink up to 7.2 Mbps
  Uplink up to 2.0 Mbps

- UMTS/HSDPA
  Tri-band 850/1900/2100
  Downlink up to 3.6 Mbps
  Uplink up to 384 Kbps

- EDGE/GPRS
  Quad-band 850/900/1800/1900 MHz
  Downlink up to 236 Kbps
  Uplink up to 236 Kbps

All Models

Temperature Range
- Operating: -30 to +70°C
- Storage: -40 to +85°C

Dimensions
- 6.0 x 1.77 x 5.0 inches
- 2.65 lbs.

Security
- AES, WEP, TKIP

Power Consumption (@12V DC)
- Tx/Rx (Typical/Max): 316/340 mA
- Idle: 166 mA
- Low-Power Mode: 54 mA
- Input Voltage: 9 - 28V DC

Host Interfaces
- Ethernet: 10/100 Mbps RJ-45, Auto MDIX
- Serial: EIA-232F DE9 Female DCE
- I/O: 4 Digital, 4 Analog, 2 Relay
- USB: Type B

Antenna Connection
- Primary: 50 Ohm TNC
- Rx Diversity: 50 Ohm SMA
- GPS: 50 Ohm SMA
- WiFi: 50 Ohm SMA

LED Indicators
- Network, Signal, Activity, Service, GPS, Power

Application Interfaces
- TCP/IP, UDP/IP, DHCP, HTTP, SNMP, SMTP, SMS, MSCI, NMEA, TAIP, GPS Binary

Standards/Approvals
- FCC
- Industry Canada
- Mil-Std 810-F
- PTCRB
- CE
- Carrier specific approvals