Vanguard 3000™
MULTICARRIER 3G CELLULAR ROUTER

CalAmp®

Air Superiority

Vanguard-3000

Simple, reliable wireless connectivity without limitations - GSM and CDMA connectivity in a single device!

Uniquely designed for operation on both GSM and CDMA networks, Vanguard 3000 offers more choice and redundancy in carrier networks. This single, flexible platform addresses a variety of wireless communications needs with serial to IP conversion, over-the-air configuration and system monitoring for optimal connectivity. This ready to deploy broadband router enables wireless data connectivity for up to two LAN and one serial device over public cellular networks at 3G speeds.

Equipped for a broad range of fixed applications, Vanguard 3000 provides reliable connectivity for Programmable Logic Controllers (PLCs), Remote Terminal Units (RTUs), Ethernet web cameras or any other Ethernet or serial device. For mobile applications, this intelligent broadband router incorporates an optional 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. An optional, built-in Wi-Fi access point also allows your tethered devices to remain connected even when you leave the vehicle.

This widely deployed wireless solution delivers countless software capabilities. OEMs may tailor the Vanguard by loading their application on the Open Developer Platform (ODP) which allows a Linux application to run on a partition of the embedded Linux operation system.

Experience
The Advantage

- Multiple carriers in a single device
- Browser configuration, diagnostics and OTA updates
- Auto redial for always-on connection
- ODP partitioned flash and API for custom applications
- GRE tunneling, local IP, IPsec, VPN client and WAN gateways
- Internal expansion slot for embedded devices
- Optional local and remote GPS for AVL and local mapping
- Optional Wi-Fi client and access point

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Vanguard 3000 Specifications

GENERAL

Input Voltage	9 to 28 VDC
TX Power @13.8 VDC	350 mA (500 mA with Wi-Fi)
RX Power @13.8 VDC	130 mA (240 mA with Wi-Fi)
Diversity Support	Rx Diversity
Security	IPsec, GRE Tunneling, PPTP VPN, RADIUS Client
Router	MAC Filtering, DMZ, Dynamic DNS
Device Management	SNMP, HTTP embedded web server
Certifications	Pending

CONNECTORS/INTERFACE

LED Indicators	RSSI, SVC, NET, GPS, AUX
Power	4-pin locking connector
Ethernet	Dual 10/100 Mbps RJ-45, auto MDIX, auto-negotiate, & activity LED
Serial	EIA-232F DE9 Female DCE, up to 115Kbps
I/O	2 digital inputs/outputs, 2 analog inputs, 2 outputs (relay driven contact closures)
Primary Antenna	50 Ohm SMA Female
RX Diversity Antenna	50 Ohm SMA Female
GPS Antenna	50 Ohm SMA Female (optional)
Wi-Fi Antenna	50 Ohm RP-SMA Female (optional)

MECHANICAL/ENVIRONMENTAL

Dimensions	4.3 (L) x 6.0 (W) x 1.8 (H) in, 10.9 x 15.25 x 4.5 cm
Weight	2.5 lb, 1.13 kg
Temperature Range	-30° to +70° C, -22° to +158° F
Humidity	5% to 95% non-condensing

CDMA TECHNOLOGY/BANDS

EVDO Rev A (IS-856-A)	800 MHz Cellular/1900 MHz PCS/2100 Downlink 3.1 Mbps; Uplink 1.8 Mbps
1xEVDO Rev 0 (IS-856)	800 MHz Cellular/1900 MHz PCS /2100 Downlink 2.4 Mbps; Uplink 153.6 kbps
1xRTT (IS-2000)	800 MHz Cellular/1900 MHz PCS Downlink 153.6 kbps; Uplink 153.6 kbps

GSM TECHNOLOGY/BANDS

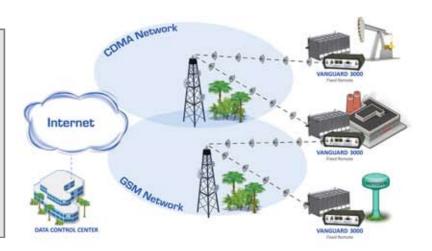|	
UMTS/HSPA	Five-band 850/900/1900/2100/AWS Downlink 7.2 Mbps, Uplink 2.0 Mbps
EDGE/GPRS	Quad-band 850/900/1800/1900 MHz Downlink 236 kbps, Uplink 236 kbps

CalAmp's industrial wireless solutions combine utility-class performance and the proven reliability needed for mission critical communications. Our ruggedized line of licensed, unlicensed, and cellular devices provide narrowband, wideband and broadband data connectivity for fixed and mobile applications.

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