

## NORTH AMERICA

# Vanguard 5530™

## Broadband 4G LTE Cellular Router

### ONE RUGGED DEVICE. CLOUD READY. APPLICATION ENABLED.

The CalAmp Vanguard 5530 offers an all-in-one mobile communications solution for industrial, utility, transportation and enterprise applications. This multi-function cellular router features high-speed, secure LTE broadband wireless connectivity in a rugged industrial design, with optional WiFi and high-precision GPS for mobile applications.

#### Fast & Secure

The Vanguard 5530 offers the fastest cellular broadband technology integrated with extensive routing capability, delivering robust connectivity and secure high speed data transfer for a broad array of devices and applications. This ready-to-deploy broadband router enables wireless data connectivity for up to two LANs and one serial device over public cellular networks at 4G speeds with strong, Enterprise-grade security (IPSec, VPN, WPA-2) to protect against external threats.

#### Flexible

The Vanguard 5530 provides reliable connectivity for Programmable Logic Controllers (PLCs), Remote Terminal Units (RTUs) and any other Ethernet or serial device. This single, flexible platform addresses a variety of wireless communications needs with serial to IP conversion, over-the-air configuration and system monitoring to reduce operating and support costs. In mobile environments, an optional, built-in WiFi access point allows tethered devices to remain connected outside the vehicle.

With a straightforward interface and the powerful DeviceOutlook device management platform, this widely-deployed wireless solution delivers effective performance and rich, field-proven software capabilities out of the box. To extend the Vanguard 5530 capabilities even further, OEMs and developers can build custom applications on the Open Developer Platform (ODP), which provides access to hardware and software services on the device, to facilitate distributed intelligence and local decision making at the edge of the network.



### Experience The Advantage

- Secure broadband LTE performance, with robust always-on connectivity
- WLAN connectivity to smart devices with GPS for situational awareness
- Cloud Ready for fast deployments and easy configuration with DeviceOutlook
- Multi-function, Cellular WAN, WLAN, multiport Ethernet and I/O in one package
- Ruggedized design for a long service life
- Open Developer Platform for custom applications to facilitate data-driven responsiveness
- Full array of I/O and serial ports for SCADA and industrial applications

# VANGUARD 5530 SPECIFICATIONS - NORTH AMERICA

## GENERAL

Input Voltage	9 to 32 VDC
TX Power @13.8 VDC	350 mA (500 mA Mobile SKU)
RX Power @13.8 VDC	130 mA (240 mA Mobile SKU)
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	MIL810 Thermal/Shock/Vibe/Humidity, Hazardous Env, UL Class I, Div II

## 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	7 digital inputs, 5 digital outputs, 4 analog inputs, 2 1-wire bus interfaces
Primary Antenna	50 Ohm SMA Female
RX Diversity Antenna	50 Ohm SMA Female
GPS Antenna	50 Ohm SMA Female (optional)
WLAN/WPAN Antenna	50 Ohm RP-SMA Female (optional)

## MECHANICAL/ENVIRONMENTAL

Dimensions	4.5 (L)x6.0 (W)x1.9 (H) in, 11.4 x 15.2 x 4.8 cm
Weight	2.5lb, 1.13 kg
Temperature Range	-40° to +85° C, -40° to +185° F <sup>[1]</sup>
Humidity	5% to 95% non-condensing

## LTE TECHNOLOGY/BANDS

LTE CAT 3	Quad-band 700/850/AWS[1700/2100]/ 1900 MHz Downlink 100 Mbps; Uplink 50 Mbps
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## GSM TECHNOLOGY/BANDS

UMTS/HSPA	Quad-band 850/900/1900/2100 MHz Downlink 7.2 Mbps, Uplink 2.0 Mbps
EDGE/GPRS	Quad-band 850/900/1800/1900 MHz Downlink 236 kbps, Uplink 236 kbps
WLAN 802.11 b/g/n	2412-2462 MHz

[1] Ambient temperature (UL C1D2 range remains -30 to 70C)



## DeviceOutlook™

### DeviceOutlook Provides:

#### CONFIGURATION MANAGEMENT

- Track firmware versions
- Configure all devices simultaneously from a single location
- Schedule OTA firmware and ODP upgrades with account management options and user defined groups

#### REMOTE DEVICE MANAGEMENT AND TRACKING

- Locate and monitor the state, condition and utilization of mobile devices

#### FASTER DEPLOYMENTS & IMPROVED ROI

- Reduce costs
- Faster deployment
- Minimize infrastructure
- Reduce support
- Eliminate capital costs

#### About CalAmp

CalAmp (NASDAQ: CAMP) is a proven leader in providing wireless communications solutions to a broad array of vertical market applications and customers. CalAmp's extensive portfolio of intelligent communications devices, robust and scalable cloud service platform, and targeted software applications streamline otherwise complex machine-to-machine (M2M) deployments. These solutions enable customers to optimize their operations by collecting, monitoring and efficiently reporting business-critical data and desired intelligence from high-value remote assets. For more information, please visit [www.calamp.com](http://www.calamp.com).

CalAmp  
1401 N. Rice Avenue  
Oxnard, CA 93030  
T: 805.987.9000 | F: 805.987.8359

[www.calamp.com](http://www.calamp.com)