



## Sentry 4G 900™ 900 MHz WiMax Broadband Router

To meet the growing need for faster data access grows, CalAmp introduces the latest broadband platform for both mobile and fixed applications including public safety and transportation, fleet management, SCADA, telemetry, surveillance, wire line replacement and critical infrastructure environments.

Sentry 4G 900 provides high-speed, long-range WiMax connectivity in the license-free 900 MHz band. Based on industrial grade IEEE 802.16e-2005 technology, it features extensive routing capabilities with an easy-to-use interface and comprehensive remote management. Built-in GPS, two Ethernet ports and an optional 802.11b/g access point allows connectivity in the office or on the road.

Ensuring the protection of even the most sensitive data, MAX-4G™ combines security features like AES 128-bit encryption, RADIUS authentication and FIPS 140-2 compliance. Not only versatile and secure, its rugged enclosure withstands even the harshest conditions with an extended temperature range.

### Key Features

- 4G Broadband router based on IEEE 802.16e-2005 WiMax technology
- Superior RF performance with MIMO capabilities
- Secure data access with AES 128-bit encryption
- AVL support through integrated GPS with local and remote NMEA data
- Fast handover for real time applications with no service degradation
- Optional integrated 802.11b/g local wireless connectivity

High Speed

Long Range

Ruggedized

Safe/Secure

Diversity

Connectivity

Enabling  
**Anytime  
Anywhere**  
Access

# Sentry 4G 900 Specifications

## General

Frequency Range	902-928 MHz ISM Band
Modulation Type	OFDMA Time Division Duplex (TDD), QPSK, 16QAM, 64QAM
Transmitter Power Out	Base Station controlled, up to 30 dBm
Data Rate	1 to 3 Mbps (nominal), 6 Mbps (peak)
Number of Channels	5 to 7 non-overlapping (up to 20 overlapped)
Channel Bandwidth	3.5 MHz
Input Voltage	10 to 30 VDC
Supported Protocols	Ethernet/IP (IPV4 suite: ICMP, IGMP, TCP, UDP, IPSec, SNTP, etc.), DHCP Client and Server, NAT
Management	HTTP embedded web server for setup and help, SNMP
Power Consumption	RX = 4.0 W max, TX = 25 W max.
Diversity Support	2x2 MIMO Matrix A
Security	AES-128 (FIPS 140-2 compliant)

## Physical

Ethernet Host Connector	Two 10/100 BaseT auto-MDIX, RJ-45
Serial Port	3-wire serial in a USB mini B female form factor
USB Port	A Female
Antenna Connector	Dual TNC Female (802.16e-2005 WWAN), Dual SMA-RP (802.11 b/g WLAN), SMA Female (GPS)
Power	4-pin locking connector
Display (3 Bi-Colour status LEDs)	RX/TX, STAT, and PWR
Mechanical Dimensions	7 x 2.2 x 7 inches (17.8 x 5.6 x 17.8 cm)
Weight	2 lbs (0.9 kg)
Mounting	Integrated mounting brackets
Chassis	Die-cast aluminum

## Environmental

Operating Temperature	-22 to +140 °F (-30 to +60 °C)
Humidity	95% at 104 °F (40 °C) non-condensing
Vibration	MIL 810F 514.5, SAE J1455 4.9
Shock/Drop	MIL 810F 516.5, SAE J1455
ESD	IEC 61000-4-2

## Agency Approvals

FCC Part 15, Industry Canada



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