

Sentry 4G-900™ 900 MHz Broadband Router



To meet the growing need for faster data access, 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 connectivity in the license-free 900 MHz band. Based on industrial grade IEEE 802.16e-2005 (mobile WiMAX) 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 802.11 b/g interface with simultaneous access point and client operation allows connectivity in the office or on the road.

Ensuring the protection of even the most sensitive data, Sentry combines security features like AES 128-bit (FIPS 197) and SHA-1-based PKMv2 (FIPS 186-2) for encryption and authentication. 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 (Mobile WiMAX) technology
- Secure data access with industry-standard 802.16e-2005 security sublayer
- 802.16e-2005 EAP-TTLS AAA supplicant for authentication and authorization
- Fast handover for real time applications with no service degradation
- Superior RF performance with MIMO capabilities
- AVL support through integrated GPS with local and remote NMEA data
- Optional integrated 802.11b/g local wireless connectivity

High Speed

Long Range

Ruggedized

Safe/Secure

Diversity

Connectivity

Sentry 4G-900 Specifications

General

Frequency Range

- 902-928 MHz ISM Band

Modulation Type

- S-OFDMA Time Division Duplex (TDD),
- QPSK, 16QAM, 64QAM

Transmitter Power Out

- Base Station controlled, up to 2 x 27 dBm

Data Rate

- True mobility: 1 to 3 Mb/s nominal, up to 6 Mb/s aggregate in 3.5 MHz channels
- Ideal conditions: up to 19 Mb/s aggregate in 10 MHz channels

Number of Channels

- 2 (10 MHz) to 7 (3.5 MHz) non-overlapping channels

Channel Bandwidth

- 3.5, 5, 7, 10 MHz

Input Voltage

- 10 to 30 VDC

Supported Protocols

- Ethernet/IP (IPV4 suite: ICMP, IGMP, TCP, UDP, SNMP), 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&B downlink
- 2x2 CDD uplink

Security

- Industry-standard 802.16e-2005 security sublayer
- 802.16e-2005 EAP-TTLS AAA supplicant for authentication and authorization

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

- Type A Female

Antenna Connector

- Dual TNC Female (802.16e-2005 WWAN)
- Dual SMA-RP (802.11 b/g WLAN)
- SMA Female (GPS)

Power Connector

- 4-pin locking connector

Display (5 Bi-Colour status LEDs)

- GPS, STAT, PWR, WLAN, WWAN

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


- 5% to 95% non-condensing

Approvals/Certifications

- FCC Part 15.247 subpart C
- IC RSS-210

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 The Sentry is a commercial off-the-shelf Information Technology component manufactured in the United States.

CalAmp
299 Johnson Ave, Ste 110
Waseca, MN 56093

Tel 800.992.7774
Tel 507.833.8819
Fax 507.833.6748

www.calamp.com