

## EXPERIENCE THE ADVANTAGE

- Band 13 or 17 LTE for public infrastructure
- Band 14 LTE for private infrastructure
- Superior RF performance with MIMO capabilities
- Secure IPSec VPN connectivity
- Autonomous WAAS enabled GPS with local and host reporting
- 24/7 world class, multi technology single supplier support

# MISSION CRITICAL BROADBAND CONNECTIVITY FOR FIXED AND MOBILE APPLICATIONS

Fusion offers a single, flexible platform to address a variety of wireless communications needs with over-the-air configuration and system monitoring for optimal connectivity. This ready-to deploy broadband router enables wireless data connectivity over public and private LTE cellular networks at 4G speeds.

For the ultimate in versatility, the Fusion provides high-speed 4G LTE public safety band 14 broadband connectivity for private infrastructure as well as public carriers infrastructure on 700 MHz Band 13 or 17 (with 3G EV-DO/HSPA fallback modes) based on 3GPP Standard E-Utra Release 8 technologies. Three Ethernet ports with routing capability can connect multiple LANs. An optional b/g/n WiFi interface with configurable access point or client operations supports connectivity to IP applications in a variety of network scenarios. The WAAS enable GPS connects seamlessly with AVL applications hosted locally or remotely. An easy to use web-based management and configuration interface as well as comprehensive remote management facilities are included.

LTE/WiFi/Ethernet rule-based and application port-based switching enables IP control such as segregating some traffic specific to designated bearer networks and choosing the WAN fallback order. Multiple WAN connection options provide redundant data connection and automatic switchover upon loss of connectivity to primary network. The Fusion is designed to operate concurrently with external WAN radios, including CalAmp's narrowband technology and satellite radios, making it a powerful and unique enabler of interoperable network technologies.

The integrated IP router and three Ethernet ports allow setup of up to three wired, independent subnets. The Fusion facilitates traffic routing between all of the concurrently operating networks without requiring an external router or switch. The optional WiFi allows Fusion to manage and route between wireless and wired local area networks.

The Fusion integrates with CalAmp Gemini G3 narrowband equipment to extend their functionality to include LTE connectivity and access additional Fusion peripherals.



### **FUSION SPECIFICATIONS**

#### **GENERAL**

Input Voltage 10 to 30 VDC

Power Consumption RX: 5.5W Cell and GPS, 7.7W with WiFi

TX: 9.1W Cell and GPS, 13.0W with WiFi

LTE Diversity Support DL MIMO, UL SISO

Security 3GPP Rel 8 security sublayer, IPsec VPN

Certifications FCC Part 15 Subpart B Class A,

IC ICES-003, PTCRB approval Verizon Carrier Certification ATT Carrier Certification

#### CONNECTORS/INTERFACE

Device Management SNMP, embedded HTTP server for

setup and help

LED Indicators WWAN0, WWAN1, WiFi, GPS, POWER,

ETH0, ETH1, ETH2, STATUS

Power 4-pin locking, ignition sense and

alarm inputs

Console/Setup 3-wire serial connection in USB MiniB

form factor

Ethernet (3) 10/100 Mbps RJ-45, auto MDIX

USB (2) Type A female

Serial Supported via optional accessory

I/O 2 digital inputs, 2 analog inputs, 2 outputs (relay driven contact closures)

(3) SMA-RP (802.11 b/g or b/g/n WiFi)

(2) SMA (cellular) WWAN0

(2) SMA (cellular) WWAN1

(1) SMA (GPS)

#### MECHANICAL/ENVIRONMENTAL

Dimensions 5.5 (L)x6.0 (W)x1.8 (H) in, 14x15.25x4.5 cm

Weight 2.5lb, 1.13 kg

Temperature Range -40° to +70° C, -22° to +140° F Humidity 5% to 95% non-condensing

Ruggedized Meets MIL-STD 810F

#### LTE TECHNOLOGY/BANDS

Band 14 700 MHz "D" Block DL MIMO, UL SISO

Band 13 700 MHz DL MIMO, UL SISO
Band 17 700 MHz DL MIMO, UL SISO

#### CDMA TECHNOLOGY/BANDS

EVDO Rev A 800 MHz Cellular/1900 MHz PCS (IS-856-A) Downlink 3.1 Mbps; Uplink 1.8 Mbps

1xEVDO Rev0 800 MHz Cellular/1900 MHz PCS

(IS-856) 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 Quad-band850/900/1900/2100 MHz

Downlink 7.2 Mbps, Uplink 2.0 Mbps Quad-band 850/900/1800/1900 MHz

EDGE/GPRS Quad-band 850/900/1800/1900 MHz

Downlink 236 kbps, Uplink 236 kbps

#### WIFI TECHNOLOGY/BANDS

IEEE 802.11 b/g or 32 bit mPCI type IIIA high

b/g/n power/performance WiFi

Security WPA2, AES-CCM & TKIP Encryption,

64/128/152 bit WEP

Data Rates 6 Mbps, 9 Mbps, 12 Mbps, 24 Mbps, 36

Mbps, 48 Mbps, 54 Mbps

#### About CalAmp

Antenna

CalAmp Corp. (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.

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All specifications are typical and subject to change without notice.

