

TTU-1220 SPECIFICATIONS

GENERAL

| | |
|---------------------|--|
| Communication Modes | GPRS/EDGE/HSPA and CDMA 1xRTT packet data, UDP and SMS |
| Location Technology | 50 channel GPS |
| Operating Voltage | 12 and 24 volt vehicle systems |

GPS

| | |
|----------------------------|-------------------------|
| Location Technology | GPS |
| Enhancement Technology | SBAS: WASS, EGNOS, MSAS |
| Tracking Sensitivity | -160 dBm |
| Acquisition Sensitivity | -148 dBm |
| Location Accuracy | 2.0m |
| Location Update Rate | up to 10 Hz |
| AGPS / Location assistance | capable |

PHYSICAL

| | |
|------------|---|
| Dimensions | 2.125" x 4.33" x 1.59", (54 x 110 x 40.4mm) |
| Weight | 12 oz / 340 g (with harness) |

CONNECTORS, SIM ACCESS

| | |
|------------|----------|
| SIM Access | Internal |
|------------|----------|

CELLULAR

| | | | |
|-----------------------|---|-----------|----------|
| Data Support | SMS, GPRS, CDMA, 1xRTT or HSPA packet data | | |
| Operating Bands (MHz) | | | |
| GSM/GPRS | 850/900/1800/1900 | | |
| CDMA/1XRTT | 850/1800 | | |
| HSPA/UMTS | 800(VI)/850(V)/900(VII)/1700(IV)/1900(II)/2100(I) | | |
| Transmitter Power | | | |
| GSM/GPRS | 850/900 | 1800/1900 | 32.5 dBm |
| | 850 | | 29.3 dBm |
| | | | 24 dBm |
| CDMA/1XRTT | 1800 | | 23 dBm |
| HSPA/UMTS | (all bands) | | 23 dBm |
| HSPA data rates | 5.6 Mbps upload/ 7.2 Mbps download | | |
| HSPA Fallback | EDGE/GPRS/GSM quad band | | |
| | EDGE MCS1-MCS9 | | |
| | 3GPP Release 6 | | |

COMPREHENSIVE I/O

| | |
|-----------------|--------------------------|
| Digital Inputs | 3 fixed bias |
| Digital Outputs | 3 open collector (150mA) |
| Status LED's | GPS and Cellular |

About CalAmp

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 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.

ENVIRONMENTAL

| | |
|---------------------|---|
| Temperature | -30° to +75° C (connected to primary power) -40° to +85° C (storage) |
| Humidity | 95%RH @ 50° C non-condensing |
| Shock and Vibration | U.S. Military Standards 202G and 810F, SAE J1455 |
| EMC/EMI | SAE J1113; FCC-Part 15B; Industry Canada |
| Rohs Compliant | |

ELECTRICAL

| | |
|-------------------|---|
| Operating Voltage | 9-32 VDC (startup, operating) 7-32 VDC (momentary) |
| Power Consumption | 2mA @ 12V (deep sleep) 10mA @ 12V (sleep on network) 70mA @ 12V (active on standby) |
| Back Up Battery | 3.8Ah Lithium-Ion (See technical specifications online for operational changes) |

MOUNTING

Standard tie-wrap or adhesive, Screw mount bracket

KEY FEATURES

- 6 months with single message cycle per day on fully charged batteries.
- 3.8 Ah lithium ion rechargeable battery pack
- IP66 sealed enclosure
- Packet data (GPRS,CDMA 1xRTT, or HSPA) and SMS-based messaging
- Internal GSM and GPS antennas
- Super sensitive GPS tracking
- Ultra-low power save mode (<2mA)
- 3-axis accelerometer for motion sensing
- 3 inputs and 3 outputs
- Voltage monitoring and low battery notification
- 20,000 buffered messages
- 4 Built-in Geo-fences
- PEG™ Exception-Based Rules
- Automatic, Over-The-Air Unit configuration on Power-up (PULS™)
- Over-The-Air Firmware Download (PULS™)
- Web-Based Device Management (PULS™)

CERTIFICATIONS

Fully certified FCC, CE, IC, PTCRB, Applicable Carriers

DEVELOPMENT SUPPORT OPTIONS

Customized hardware and software development available on request

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All specifications are typical and subject to change without notice