



OT-200 NextG Series

Fleet tracking Unit with Leading Technologies



Orbit Track

VEHICLE REPORTING SOLUTIONS

EXPERIENCE THE ADVANTAGE

- GSM/GPRS, CDMA 1xRTT, or HSPA configurations
- Internal or external cellular and GPS antenna options for easy installation
- High sensitivity GPS
- 3-axis precision accelerometer for driver behavior and impact detection
- 20,000 buffered message log
- 32 geo-fence capability
- 5 inputs/3 outputs/1-wire® interface for driver ID, temperature sensors, and more
- Dual serial ports
- Garmin® FMI support
- Power management sleep modes
- Automatic, over-the-air configuration and firmware download

The OS-200 fleet tracking unit offers leading edge technology including a 3-axis accelerometer for measuring driver behavior and vehicle impacts while offering the high reliability fleet customers demand.

COMPETITIVE PRICE, COMPETITIVE TECHNOLOGY, COMPETITIVE EDGE

The OS-200 is a robust, affordable fleet device you can count on for AVL applications. The OS-200 incorporates GSM/GPRS, CDMA 1xRTT, or HSPA wireless communication along with extra-sensitive GPS, a powerful processing engine, and a 3-axis accelerometer that detects and acts on hard braking, aggressive acceleration, or vehicle impacts. Internal or external antenna options enables the device to be mounted virtually anywhere for easy, inexpensive installations.

FLEXIBILITY

The OS-200 employs CalAmp's industry leading on-board alert engine, PEG™ (Programmable Event Generator). This advanced engine monitors external conditions and supports customer-defined exception-based rules to help meet the needs of your application. PEG continuously monitors the vehicle environment and responds instantaneously to pre-defined threshold conditions related to time, date, motion, location, geo-zone, input and other event combinations. This behavior can be programmed by CalAmp before shipment, at a customer's facility, or over-the-air once the unit has been fielded. With PEG, your unique application will meet demanding customer requirements and give you a distinct advantage over your competition.

OVER-THE-AIR SERVICEABILITY

The OS-200 also leverages CalAmp's industry leading over-the-air device management and maintenance system, PULS™ (Programming, Updates, and Logistics System). Configuration parameters, PEG rules, and firmware can all be updated over-the-air. PULS offers out-of-the-box hands-free configuration and automatic post-installation upgrades. You can also monitor unit health status across your customers' fleets to quickly identify issues before they become expensive problems.



OS-200 SPECIFICATIONS



GENERAL

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

GPS

Location Technology	50 channel GPS (with SBAS) SBAS: WAAS, EGNOS, MSAS, GAGAN
Location Accuracy	2.0 meter CEP (with SBAS)
Tracking Sensitivity	-162dBm
Acquisition Sensitivity	-147dBm
AGPS Capable	

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(VIII)/1700(IV)/1900(II)/2100(I)	
Transmitter Power		
GSM/GPRS	850/900	32.5 dBm
	1800/1900	29.3 dBm
CDMA/1XRTT	850	24 dBm
	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	5 (1 fixed bias low, 4 programmable bias)
Digital Outputs	3 relay driver (200 mA)
Serial Interface	2 (1 TTL serial, 1 switched power TTL)
Analog Inputs	2 (1 internal VCC monitor, 1 external A/D input)
1-Wire® Interface	Driver ID, temperature sense
Status LEDs	GPS and cellular

ELECTRICAL

Operating Voltage	6-32 VDC
Power Consumption	3 mA @ 12V (deep sleep) 10 mA @ 12 V (sleep on network with SMS) 20 mA @ 12 V (sleep on network with GPRS) 70 mA @ 12 V (active tracking)

ENVIRONMENTAL

Temperature	-30° to +75° C (operating) -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	

PHYSICAL

Dimensions	2 x 4 x 0.85", (51 x 102 x 22 mm)
Weight	74 g (external), 85 g (internal)

CONNECTORS, SIM ACCESS

Connection Type	20-pin Molex-type fused power harness
GPS Antenna	External SMA (w/ tamper monitoring, 3V) or internal
Cellular Antenna	External SMC or internal
SIM Access	Internal (GSM/GPRS or HSPA variant only)

CERTIFICATIONS

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

MOUNTING

Tie-wrap, adhesive, or Velcro
Screw mounting bracket

OPTIONAL FEATURES/FUNCTIONS

- Driver ID with 1-wire® protocol
- Temperature sensing via 1-wire® protocol
- Backup battery
- External GPS and cellular antennas
- Internal GPS and cellular antennas
- NMEA data via serial
- External A/D input
- Serial cables
- jPOD™ truck ECU interface
- Garmin® FMI compatible interface
- Piezo speaker, panic button, and privacy button
- Automatic, Over-The-Air Unit Configuration on Power-up (PULS™)
- Power harness with two (2) 3A fuses

