

W4 Ward Track 330i™

Location and Driver Behavior Tracking



KEY FEATURES

- Customizable
- Simple, fast installation
- Internal or external antenna options
- 20,000 buffered message log
- Robust military standards construction
- Exception based rules
- Wireless configuration and firmware updates
- Wireless firmware download and web based device management
- Internal back-up battery for data protection



Reliable Data

Ward Track 330i reliably tracks vehicle location and records driver behaviors such as hard braking and aggressive acceleration. Measurable results provided by Ward Track help protect your bottom line using wireless communication with a 3-axis precision accelerometer, robust enough for AVL applications. Extremely sensitive GPS, with internal or external antenna enables the Track 330i to be mounted virtually anywhere with simple, inexpensive installation, and fast, trouble-free start-up.

Detailed Data Collection

Ward Track 330i employs an on-board alert engine, Programmable Event Generator (PEG) for monitoring external conditions, and supports customer-defined, exception-based rules. The PEG continuously monitors the vehicle's environment, and responds instantaneously to predefined threshold conditions related to time, date, motion, location, geo-zone, input, and other event combinations. Programming options include factory, on-site, or wireless once the unit has been fielded.

Wireless Service and Upgrades

Monitor unit health across fleets to quickly identify and control issues before they can become problems with PULS™ the programming, updates, and logistics system.

Optional

- ✓ Driver ID
- ✓ Piezo speaker, panic button, and privacy button
- ✓ Temperature sensing
- ✓ NMEA data
- ✓ Internal A/D input
- ✓ Serial cables
- ✓ Garmin® FMI compatible interface cable
- ✓ Power harness with two 3A fuses



Specifications - Ward Track 330i

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

Electrical

Operating Voltage	6-32 VDC
Power Consumption	3 mA @12 V (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)

Connectors, SIM Access

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

GPS

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

Environmental

Temperature	-30° to +75° C - <i>operating</i> -40° to +85° C - <i>storage</i>
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	90 x 54 x 20 mm
Weight	74 g external; 85 g internal - <i>estimated</i>

Certifications

Fully certified FCC, CE, IC, PTCRB, applicable carriers



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