**Cellocator Division
Pointer Telocation Ltd.**

CR300/B

SMART ENTRY LEVEL DEVICE FOR FLEET MANAGEMENT & SVR

CR300 is a compact size entry-level device for Fleet Management and Vehicle Security Applications. This device is available in two versions: CR300 and CR300B. It targets large fleets, insurance and leasing companies.

The CR300 is competitively priced for large-scale deployments, its premium features can be added and enabled over the air utilizing Cellocator + web-based maintenance server with feature programmable I/O.

The CR300B includes all the features of the CR300. In addition, it comes equipped with a rechargeable battery and GSM jamming detection algorithms for improved compliance with vehicle security applications, and supports average hibernation.

The CR300 family is compatible with a variety of accessories; which enable applications such as fuel monitoring, temperature monitoring and more

Fleet Management   SVR   Insurance & Leasing   Basic Track & Trace

POINTER

FEATURES ▶

- Built-in Quad band modem

- High-end SiRFstarIV™ chipset based GPS module for advanced performance & accuracy

- Event Memory: ~5 K full time stamped events

- Built-in Motion Sensor for movement & towing detection

- 1-wire interface

- Ignition input, 2 programmable GPIOs and 2 outputs

- Small size for quick and easy installation

- Current in sleep mode: as low as 2mA

- IP40

- GPRS / SMS communication types

- Roaming management

- Online event-driven reporting

- Geo-Fence management

- Cellocator+™ maintenance server support

PREMIUM FEATURES ▶

CR300 ENABLES AN OVER THE AIR UPGRADE FOR ADDING PREMIUM FEATURES INCLUDING:

- Transparent mode TTL levels

- Cell ID

- Advanced roaming:
  - Up to 100 roaming operators list
  - Roam/Home adaptive message rate

- Up to 100 Geofences

- 2 Usage counters

- Privacy mode

- Analog input

- In cabin speed alert

- Curve smoothing

- Offline tracking

- Immobilizing: Gradual output activation

- 1-wire input (Driver-ID/Trailer ID)

The device is available in two flavors, CR300 and CR300B, targeting large fleets, insurance and leasing companies

TECHNICAL SPECIFICATIONS ▶

Communication	
GSM	GPRS class 10, PDU SMS
Bands	Quad band: 850, 950, 1800, 1900MHz
Power Output	2W, 1W
SIM	Internal, replaceable
Antenna	Internal, quad band GSM antenna
Packet Data	TCP/IP, UDP/IP
SMS	PDU
GPS	
Technology	Chipset: SiRFstarIV GSD4e chipset
Sensitivity (Tracking)	-163dBm
Acquisition (normal)	Cold <35Sec, Warm<35Sec, Hot<1Sec
Antenna	On board, internal patch antenna
Inputs and Outputs	
Inputs	1 internally pulled down input dedicated for ignition switch 2 general purpose inputs with assignable functionality and configurable polarity
Outputs	2 general purpose open drain outputs (250mA max) with assignable functionality
Motion sensor	For movement and towing detection
Interfaces	
COM port	Selectable baud rate (9600 or 115000bps) TTL levels (external TTL-USB adaptor) 8 bit; 1 Stop Bit; No Parity Configuration Firmware upgrade
1-Wire™ (Dallas port)	DS1990A, DS1971 compliant Driver management Car Alarm Authorization

TECHNICAL SPECIFICATIONS

Power

Input Voltage	9-32VDC
Average Current consumption	Normal: 40mA Economic: 23mA Hibernation: <2mA
Internal Battery (CR-300B)	Li-Ion Polymer, 3.7V, 440mAh, rechargeable Embedded NTC for temperature controlled charging Operating Temperature: -20(65% charge) ÷ 60°C Battery Monitoring: Temperature (NTC) & voltage Autonomy: Up to 40 Tx @ 1Msg/min @ 25°C Protections: over current, overcharge and over discharge

Vehicle Environment Immunity

Immunity	Compliant with ISO 7637 test level #4 (in accordance with e-mark directive)

Environment

Temp, operating	-30°C to +70°C full performance -40°C to +85°C – degraded communication
Temp, storage	-40°C to +85°C
Humidity	95% non-condensing
Protection	IP40
Vibration, Impact	ISO 16750
Mounting	Tie-wraps and/or two sided adhesive

Certifications

FCC	Part 15 Subpart B, part 22/24 compliant
CE	CE EMC & R&TTE according to 89/336/EEC or 1999/5/EC CE Safety EN60950-1:2006+A11:2009 Automotive Directive 2004/104/EC (E-Mark)
IC	Industrial Canada
PTCRB	TRP, TIS, Spurious and harmonics emission

Dimensions & Weight

	91x69x23mm
Weight	~100gr (approximately)