



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

CR300 units, available at a competitive price for large-scale deployments, enable adding premium features over the air utilizing Cellocator+ web-based maintenance server, and feature programmable I/O.

The CR300B, in addition to the CR300 features, is equipped with a built in rechargeable battery and GSM jamming detection algorithms for improved compliance with vehicle security applications. CR300 units are compatible with a variety of accessories enabling 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 alert
- Curve smoothing
- Offline tracking
- Immobilizing: Gradual output activation
- 1-wire input (Driver-ID/Trailer ID)



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

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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	
Weight	91x69x23mm ~100gr (approximately)

HOW TO PURCHASE

For more information please contact Cellocator Division, Pointer Telocation | 14 Hamelacha Street, Rosh Haayin 48091, Israel
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