

# Pointer by Powerfleet Micromobility Solution

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# CR-100

## Compact, LTE-BASED Micromobility Device with BLE Connectivity

The CR-100 is Pointer's cost-effective and high-quality fleet and security management product. With a wide input voltage range of 9 to 90 volts and a CAN interface, it is designed to accommodate various vehicle types, including two/three-wheeled lightweight vehicles such as scooters and e-bikes, as well as traditional cars and trucks. Its compact form factor, IP67 protection, and built-in non-removable harness ensure easy installation and make it suitable for challenging environments.

The CR-100 also includes GNSS for location tracking, in addition to collision detection, basic driver behavior capabilities and built-in motion sensors to enable movement and towing detection to ensure improved compliance with vehicle security requirements.



# Key Features

- LTE CAT-1 with 2G fallback (EMEA, APAC, LATAM)
- Built-in BLE connectivity
- Rechargeable backup battery
- IP67 – suitable for rough, outdoor environmental conditions
- CAN interface to enable a wide range of applications driven from the vehicle CANBUS data (vehicle status, fuel level, tire status etc.)
- Dual color LED for Cellular/GNSS installation validation indication
- Basic driver behavior monitoring capabilities including harsh acceleration, harsh braking, harsh turn, over speeding and accident detection
- Up to 50 Geo-Fences
- 1-wire interface for driver authentication
- Built-in motion sensor for movement & towing detection.
- Memory that can store up to 7,300 logged events
- Advanced capabilities including:
  - Crash Detection
  - Odometer
  - Jamming Detection
  - Tilt Tamper
  - Immobilization



# Technical Specifications:

Cellular Communication		
<b>Cellular</b>	LTE CAT-1 with 2G fallback (EMEA)	LTE CAT-1 with 2G fallback (Australia/ Latin America)
<b>Supported Technologies &amp; Bands</b>	<ul style="list-style-type: none"> <li>LTE-FDD: B1/ 3/ 5/ 7/ 8/ 20/ 28</li> <li>LTE-TDD: B38/ 40/ 41</li> <li>GSM(2G): B2/ 3/ 5/ 8</li> </ul>	<ul style="list-style-type: none"> <li>LTE-FDD: B1/ 2/ 3/ 4/ 5/ 7/ 8/ 28/ 66.</li> <li>LTE-TDD: B38/ 40/ 41</li> <li>GSM(2G): B2/ 3/ 5/ 8</li> </ul>
<b>Regulatory</b>	<ul style="list-style-type: none"> <li>Europe: CE</li> <li>Australia/New Zealand: RCM</li> </ul>	<ul style="list-style-type: none"> <li>America: FCC</li> <li>Brazil: Anatel</li> </ul>
<b>Data Rates</b>	<ul style="list-style-type: none"> <li>LTE-FDD (Mbps): 10 (DL)/ 5 (UL)</li> <li>LTE-TDD (Mbps): 8.96 (DL)/ 3.1 (UL)</li> <li>GSM/2G (kbps): 85.6 (DL)/ 85.6 (UL)</li> </ul>	
<b>SIM Card Compatibility</b>	Nano SIM and e-SIM (Optional).	
<b>Antenna</b>	Internal	
<b>Packet Data</b>	TCP/IP, UDP/IP	
<b>SMS</b>	PDU	
Local Communication Interfaces		
<b>BLE</b>	BLE 4.2, Wireless Connectivity	
<b>Wi-Fi</b>	2.4 GHz 11b (RX). Wi-Fi Scan only (optional, Used for positioning purposes)	
<b>Serial Communication</b>	TTL for Configuration and firmware upgrades.	
<b>1-Wire™ (Dallas) Input</b>	DS1990A, DS1971 compliant for driver management	

GNSS	
<b>GNSS</b>	GPS, BeiDou and Galileo
<b>Sensitivity (Tracking)</b>	-160 dBm
<b>Acquisition Average TTFF</b>	Cold Start: < 30s, Hot Start: < 2s
<b>Antenna</b>	Internal
Inputs and Outputs	
<b>D I/O</b>	2
<b>Analog Inputs</b>	2
<b>Ignition switch input</b>	1
<b>CAN HS</b>	1 (CAN2.0 ISO 11898, J1939, FMS)
Accelerometer	
<b>Internal</b>	3D, +/- 32g range, 14-bit representation, 1mg resolution
Display	
<b>LED Indicators</b>	GNSS, Cellular Connectivity and power status LED.
Power	
<b>Input Voltage (Vehicle Power)</b>	9-90 VDC
<b>Internal Backup Battery</b>	Li-Ion Polymer, 3.7V, 200mAh, rechargeable.
Applicable Environmental Conditions	
<b>Operating Temperature</b>	-30°C to +70°C full performance (External Power)
<b>Storage Temperature</b>	-20°C to +45°C
<b>Humidity</b>	95% non-condensing
<b>Protection</b>	IP65 (in process to acquire IP67)
<b>Climatic, Vibration, Impact</b>	ISO 16750
Dimensions and Weight	
<b>Dimensions</b>	90 x 43.9 x 24.4 mm
<b>Weight</b>	88gr (with harness and battery)