

iTriangle

Innovate • Optimise • Deliver



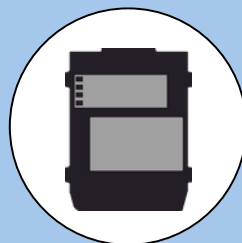
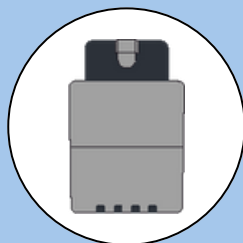
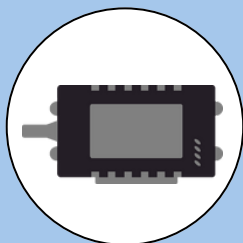
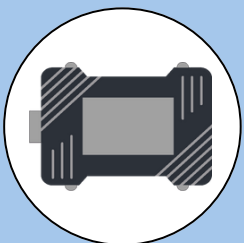
TELEMATICS

Product Catalog

DECEMBER 2024



SMART TECH FOR SAFER ROADS



AWARDS & CERTIFICATIONS

Gartner 2019 GARTNER AWARDS RECOGNIZED AS A KEY TELEMATICS VENDOR BY GARTNER FOR THE APAC REGION	FROST & SULLIVAN 2020 BEST PRACTICES AWARD INDIAN TELEMATICS & IOT SOLUTIONS ENABLING TECHNOLOGY LEADERSHIP AWARD	World Auto Forum Connect, Grow, Share, Win! 2021 8TH WAF AWARDS DRIVE ASSIST 101 - BEST INNOVATION AUTO & MOBILITY TECH CATEGORY	ACMA 2022 ATMANIRBHAR EXCELLENCE AWARDS ATMANIRBHAR SILVER AWARD FOR EXCELLENCE IN NEW PRODUCT DESIGN & DEVELOPMENT	TiE CON 2023 FOSTERING ENTREPRENEURSHIP
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ABOUT US

iTriangle Infotech, based in Bangalore, is India's largest transportation telematics company and a leading player in transportation telematics. The company offers comprehensive solutions, including a proprietary Remote Data Acquisition Platform utilizing GSM-GPS-RFID-Sensors. This platform serves various sectors such as Auto OEMs, Logistics, EVs, Battery Management System, Public/Passenger Transport, Compliance, Banking, Insurance, Healthcare, Petroleum, Student/Employee Transport, and many more. The highly qualified professionals at iTriangle Infotech drive its innovation and excellence.

iTriangle Infotech specializes in manufacturing products and offering services related to vehicle tracking and monitoring, fleet management, personal tracking and safety, diagnostics, and prognostics. To date, iTriangle has deployed over 1 million devices, including more than 50,000 EV devices, serving 1000+ satisfied customers globally. With expertise in hardware design, firmware development, and web/mobile applications, the company delivers customized OEM/ODM and aftermarket products and services. Their comprehensive telematics platform, integrating hardware, firmware, and web components, guarantees swift deployment and market adaptability.

MAJOR CUSTOMERS

SYSTEM INTEGRATORS & FLEET MANAGEMENT COMPANIES



CORPORATE CUSTOMERS



EV CUSTOMERS



OEM AUTOMOTIVE



GOVERNMENT & PUBLIC SECTOR





TS101 BASIC EV CAN

TECH SPECIFICATIONS & FEATURES



Low power consumption & power optimization



3 Digital I/Os & 1 Analog Input



Accelerometer & CAN Available



Eco System Option



Internal Storage Data Capacity of 6000 Records



Long Battery Backup up to 4-5 hours*



Remote health checking / Diagnosis through SMS



Easy installation & configuration



IP65 Rating

PARAMETERS	SPECIFICATIONS	FEATURES
Cellular	850/900/1800/1900 MHz	Enables global connectivity and communication.
Communication Interface	TCP/IP	Enables reliable data communication.
Short Range	Bluetooth 3.0	Provides reliable wireless communication.
Navigation	GNSS, GLONASS, GELILIO, BeiDou	Provide global satellite navigation for precise vehicle tracking.
Digital Input	2 Nos	Detect vehicle movement; connect to panic button or AC system.
Digital Output	1 No	Output used for vehicle immobilization in case theft.
Analog Input	1 No	The analog input is used for fuel sensors to check actual fuel level in vehicle.
CAN	1 Channel	Collects vehicle data and supports diagnostics protocols.
Ignition (IGN)	Yes	Device digital input (IGN) will be connected to vehicle IGN to detect vehicle on/off.
Accelerometer	Yes	Accelerometer is used to detect the vehicle movement and to detect the driver behavior to trigger an event of harsh acceleration, harsh braking and harsh curving.
OTA / FOTA	Yes	The device as an option to update the configuration parameters and firmware update through maintenance server.
Device Case Open/Tamper Alert	Yes	In case device main power is disconnected or device box is tampered or open the device will detect an alert.

CONTACT US AT

www.itriangle.in | sales@itriangle.in | +91-9513102921 | +91-9739974445

Note: We pursue a policy of continuous research & product development. Specifications and features are subject to change without prior notice.

*Backup time may vary based on configuration and battery ageing.



TS101 BASIC EV CAN

TECH SPECIFICATIONS & FEATURES



Low power consumption & power optimization



3 Digital I/Os & 1 Analog Input



Accelerometer & CAN Available



Eco System Option



Internal Storage Data Capacity of 6000 Records



Long Battery Backup up to 4-5 hours*



Remote health checking / Diagnosis through SMS



Easy installation & configuration



IP65 Rating

PARAMETERS	SPECIFICATIONS	FEATURES
Internal Battery	500 mAH	Offers backup power during brief outages.
LED Status Indicators	GNSS, Process, GSM, Power	LED indication is to check the device behavior with respect GNSS, Cellular, Power & Process LED.
Power Supply	9-90V DC	The device is applicable for EV & ICE vehicles.
Sleep Mode Current	<15 mA	Device has an option to configure to sleep mode once the vehicle is in OFF condition.
Cellular/GNSS/BLE Antenna	Internal	Enable communication, navigation, and connectivity.
SIM	NANO (Optional Embedded)	Houses nano SIM card for telematics connectivity.
Data Storage	16MB	Stores telematics data for analysis and reporting.
Internal Data Storage	6000 Records	Holds historical data for review and analysis.
Configuration	USB / SMS / TCP/IP / BT	Configure via SMS, GPRS, OTA, JTAG tool, or Bluetooth.
Operating Temperature	-25 to +85 Degree Celsius	Ensures operation in extreme temperatures.
Storage Temperature	-40 to +85 Degree Celsius	Protects device during extreme temperature storage.
Ingress Protection	IP65	Protects against dust and water.
EMI/EMC	AIS-004	Reduces electromagnetic interference effects.
Dimensions	96mm X 84mm X 31mm	Determines device's physical dimensions.
Weight	145 grams	Indicates device's overall weight.

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TS101 PLUS 4G

TECH SPECIFICATIONS & FEATURES



CAN Available



6 Digital I/Os & 2 Analog Input



Accelerometer & Gyroscope



Multi Constellation GNSS Receiver



Low power consumption & power optimization



Long Battery Backup up to 4 hours*



Remote health checking / Diagnosis through SMS



Easy Installation & Configuration



IP65 Rating

PARAMETERS	SPECIFICATIONS	FEATURES
LTE-Cat1	B1, B3, B5, B8, B34, B39, B40, B41	Provides broad LTE connectivity across multiple frequency bands.
2G	900/1800 MHz	Enables global connectivity and communication.
Communication Interface	TCP/IP	Enables real-time tracking, diagnostics, and management.
Short Range	Bluetooth 5.0	Provides reliable wireless communication.
Navigation	GNSS, GLONASS, BeiDou	Provides accurate location tracking and navigation services.
Digital Input	4 Nos	Detect vehicle movement; connect to panic button or AC system.
Digital Output	2 Nos	Output used for vehicle immobilization in case theft.
Analog Input	2 Nos	The analog input is used for fuel sensors to check actual fuel level in vehicle.
RS232 / RS485	1 No (Either One)	Enables communication with various vehicle and external systems.
USB	2.0 - For Config Purpose Only	Facilitates data transfer and device connectivity.
CAN	1 No J1939, OBD II, Raw Filter	Collects vehicle data and supports diagnostics protocols.
Ignition (IGN)	Yes	Device digital input (IGN) will be connected to vehicle IGN to detect vehicle on/off.
Panic Button	Yes	Enables quick emergency alerts for immediate assistance.
Main Power	Yes	Provides essential power for device operation and functionality.
Accelerometer & Gyroscope	Yes	Tracks vehicle orientation, acceleration, and movement changes.
OTA / FOTA	Yes	The device as an option to update the configuration parameters and firmware update through maintenance server.
Device Case Open/Tamper Alert	Yes	In case device main power is disconnected or device box is tampered or open the device will detect an alert.

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TS101 PLUS 4G

TECH SPECIFICATIONS & FEATURES



CAN Available



6 Digital I/Os & 2 Analog Input



Accelerometer & Gyroscope



Multi Constellation GNSS Receiver



Low power consumption & power optimization



Long Battery Backup up to 4 hours*



Remote health checking / Diagnosis through SMS



Easy Installation & Configuration



IP65 Rating

PARAMETERS	SPECIFICATIONS	FEATURES
Sleep Mode Current	<5mA	Device has an option to configure to sleep mode once the vehicle is in OFF condition.
LED Status Indicators	GNSS, Process, Cellular, Power	LED indication is to check the device behavior with respect GNSS, Cellular, Power & Process LED.
Power Supply	9-90V DC	Supports a wide range of vehicle power sources.
Internal Battery	850 mAH	Offers backup power during brief outages.
LTE / GNSS / BLE Antenna	Internal	Enable communication, navigation, and connectivity.
SIM	Plastic (4FF - Nano)	Enables connectivity and location tracking for devices.
Data Storage	128 Mbyte	Stores telematics data for analysis and reporting.
Internal Data Storage	40000 Records	Holds historical data for review and analysis.
Configuration	USB / SMS / TCP/IP / BT	Allows versatile configuration and communication options.
Operating Temperature	-25 to +85 Degree Celsius	Ensures operation in extreme temperatures.
Storage Temperature	-40 to +85 Degree Celsius	Protects device during extreme temperature storage.
Vibration	IS:9000-8	Ensures durability against mechanical vibrations.
Ingress Protection	IP65	Protects against dust and water.
Temperature Endurance	ISO 16750-4, Clause 5.1.2.2	Ensures durability under extreme temperature conditions.
Thermal Shock	ISO 16750-4	Tests resilience to rapid temperature changes.
Mechanical Shock	ISO 16750-3	Ensures device reliability under mechanical shock conditions.
Electrical (Load Dump)	ISO 7637-2 Pulse 5a, 5b	Protects against voltage spikes and electrical surges.
EMI / EMC	AIS-004	Reduces electromagnetic interference for reliable operation.

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TS101 PLUS 4G

TECH SPECIFICATIONS & FEATURES

PARAMETERS	SPECIFICATIONS	FEATURES
Dimensions (LxWxH)	98mm x 85mm x 31mm	Determines device's physical dimensions.
Weight	~185 grams	Indicates device's overall weight.



CAN Available



6 Digital I/Os & 2 Analog Input



Accelerometer & Gyroscope



Multi Constellation GNSS Receiver



Low power consumption & power optimization



Long Battery Backup up to 4 hours*



Remote health checking / Diagnosis through SMS



Easy Installation & Configuration



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TS101 BASIC 4G

TECH SPECIFICATIONS & FEATURES

PARAMETERS	SPECIFICATIONS	FEATURES
LTE-Cat1	B1, B3, B5, B8, B34, B38, B39, B40, B41	Provides broad LTE connectivity across multiple frequency bands.
Communication Interface	TCP/IP	Enables real-time tracking, diagnostics, and management.
Navigation	GPS, GLONASS, BeiDou	Provides accurate location tracking and navigation services.
Digital Input	1 No (Ign)	Detect vehicle movement; connect to panic button or AC system.
USB	2.0 - For Config Purpose Only	Facilitates data transfer and device connectivity.
Ignition (IGN)	Yes	Device digital input (IGN) will be connected to vehicle IGN to detect vehicle on/off.
Accelerometer	Yes	Tracks vehicle orientation, acceleration, and movement changes.
OTA / FOTA	Yes	The device as an option to update the configuration parameters and firmware update through maintenance server.
Power Supply	9-90V DC	Supports a wide range of vehicle power sources.
Internal Battery	60mAh	Offers backup power during brief outages.
LTE / GNSS / BLE Antenna	Internal	Enable communication, navigation, and connectivity.
SIM	Nano SIM	Enables connectivity and location tracking for devices.
Internal Data Storage	20000 Records	Holds historical data for review and analysis.
Configuration	USB / SMS / TCP/IP	Allows device setup via multiple communication methods.
Operating Temperature	-25 to +85 Degree Celsius	Ensures operation in extreme temperatures.
Storage Temperature	-40 to +85 Degree Celsius	Protects device during extreme temperature storage.



9-90V DC Power Supply



Movement & Drive Detection



Geofence & Eco-Driving



20000 Records Data Storage



Multi Server Communication With Parallel & Backup Mode



Easy Installation & Configuration



OTA / FOTA

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UX101 - AL

TECH SPECIFICATIONS & FEATURES



CAN Parameter Data Collection from Vehicle



GNSS/IRNSS Location Data Collection



Accelerometer & Gyroscope Sensor Data Sampling for Driver Profile



CAN/GNSS/Accelerometer-based Alert Generation



DM1 or UDC Faults Logging



Support J1939 SPN Parameter for Commercial Vehicles



Integrated USB & BLE for Diagnostic Interface



Self-Diagnostics of TCU for Reporting Internal Faults over CAN



Remote Diagnostic Interface for Vehicle ECUs



Remote ECU Flashing on CAN UDS Over the Air (OTA)



Network Non-Availability - Storage of 1L Records

PARAMETERS	SPECIFICATIONS	FEATURES
Operating System	YOCTO Linux, Legato Open Source	Provides a flexible, stable platform for applications.
Controllers	Multi-controller architecture: WP7608, Renesas, NXP	Optimizes performance and manages multiple vehicle functions.
Cellular	<ul style="list-style-type: none"> LTE-Cat1: B1, B3, B5, B40, B41 2G: 900/1800 MHz 3G: B1, B8 	Supports diverse networks for reliable vehicle connectivity.
GNSS	<ul style="list-style-type: none"> GNSS/BeiDou/GLONASS/GELLIO/IRNSS Position Accuracy 2.5m Time to first fix (@ -130 dBm): Hot Start: 1s, Cold Start: 45s 	Ensures accurate positioning and fast satellite acquisition.
SIM	eSIM (MFF2)	Enables connectivity and location tracking for devices.
SIM Provider	Taisys - India	Provides reliable cellular connectivity for telematics solutions.
Antennas	Internal LTE/GNSS/BLE Antennas	Improves signal reception for connectivity and positioning.
CAN	2x CAN Non-Isolated 250/500Kbps	Facilitates reliable communication with multiple vehicle networks.
RS232/RS485	RS232 HalfDuplex (19200bps)	Enables serial communication for device integration.
Motion Sensor	3-Axis Accelerometer + 3-Axis Gyroscope	Monitors vehicle movement and detects orientation changes.
BLE	5.0 BLE	Provides reliable wireless communication.
Protocols	TCP/IP, HTTPS, HTTP	Facilitates secure, reliable data communication and access.
LED Indicators	GNSS, Process, Cellular, Power, CAN	Provides status updates and troubleshooting through visual indicators.
Built-in Battery	1000mAh	Supports operation during power outages or interruptions.
I/O	1-Ignition, 3-Analog I/P, 5-Digital I/P, 3-Digital O/P (Low side), 1-Digital O/P(High side), 1-Panic Button	Enables diverse input/output functions for vehicle control.
Security	Hardware HSM, Internal Secure Memory	Protects data and enhances system security measures.
Power Supply	8-36V DC	Supports a wide range of vehicle power sources.

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UX101 - AL

TECH SPECIFICATIONS & FEATURES

PARAMETERS	SPECIFICATIONS	FEATURES
Power Consumption	Sleep Mode: <3mA	Reduces energy use, extending device battery life.
Operating Temperature	-20 to +60 °C with Battery -40 to +80 °C without Battery	Ensures operation in extreme temperatures for reliability.
Humidity	95% R.H. at 50 °C	Ensures reliable performance in high humidity conditions.
Connector	PN: 643340100	Provides secure and reliable connection for components.
Dimensions (LxWxH)	151mm x 80mm x 38mm	Determines device's physical dimensions.
Weight	~ 200 grams	Indicates device's overall weight.

COMPLIANCE

PARAMETERS	SPECIFICATIONS	FEATURES
Electrical Transient Conduction Along Supply Lines Load Dump	ISO7637-2	Protects against electrical surges and system damage.
Slow Transients & Fast Transients	ISO7637-2	Protects electronics from electrical noise and surges.
Supply Voltage Range	ISO 16750-2:2012	Ensures reliable operation across varying voltage levels.
Supply Voltage Range, Power Interruption, Source Voltage Fluctuation, Short Circuit Test	ISO 16750-2	Ensures device durability under power fluctuations and faults.
Conducted Emission, Radiated Emission	CISPR25	Minimizes electromagnetic interference, ensuring signal integrity.
ESD Immunity	ISO 10605:2008	Protects electronics from electrostatic discharge damage.
Low & High Temperature Storage/Operating Test	ISO 16750-4	Ensures reliable performance in extreme temperature conditions.
ROHS (Restriction of Hazardous Substances)	Yes	Ensures compliance by eliminating harmful substances.
Ingress Protection	IP67	Protects against dust and water.



CAN Parameter Data Collection from Vehicle



GNSS/IRNSS Location Data Collection



Accelerometer & Gyroscope Sensor Data Sampling for Driver Profile



CAN/GNSS/Accelerometer-based Alert Generation



DM1 or UDC Faults Logging



Support J1939 SPN Parameter for Commercial Vehicles



Integrated USB & BLE for Diagnostic Interface



Self-Diagnostics of TCU for Reporting Internal Faults over CAN



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Remote ECU Flashing on CAN UDS Over the Air (OTA)



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UX101 - AL++

TECH SPECIFICATIONS & FEATURES



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Network Non-Availability - Storage of 1L Records

PARAMETERS	SPECIFICATIONS	FEATURES
Operating System	YOCTO Linux, Legato Open Source	Provides a flexible, stable platform for applications.
Controllers	Multi-controller architecture: WP7608, Renesas, NXP	Optimizes performance and manages multiple vehicle functions.
Cellular	<ul style="list-style-type: none"> LTE-Cat1: B1, B3, B5, B40, B41 2G: 900/1800 MHz 3G: B1, B8 	Supports diverse networks for reliable vehicle connectivity.
GNSS	<ul style="list-style-type: none"> GNSS/BeiDou/GLONASS/GELLIO/IRNSS Position Accuracy 2.5m Time to first fix (@ -130 dBm): Hot Start: 1s, Cold Start: 45s 	Ensures accurate positioning and fast satellite acquisition.
SIM	eSIM (MFF2)	Enables connectivity and location tracking for devices.
SIM Provider	Taisys - India	Provides reliable cellular connectivity for telematics solutions.
Antennas	Internal LTE/GNSS/BLE Antennas	Improves signal reception for connectivity and positioning.
CAN	2x CAN Non-Isolated 250/500Kbps	Facilitates reliable communication with multiple vehicle networks.
RS232/RS485	RS232 HalfDuplex (19200bps)	Enables serial communication for device integration.
Motion Sensor	3-Axis Accelerometer + 3-Axis Gyroscope	Monitors vehicle movement and detects orientation changes.
BLE	5.0 BLE	Provides reliable wireless communication.
Protocols	TCP/IP, HTTPS, HTTP	Facilitates secure, reliable data communication and access.
LED Indicators	GNSS, Process, Cellular, Power, CAN	Provides status updates and troubleshooting through visual indicators.
Built-in Battery	1000mAh	Supports operation during power outages or interruptions.
I/O	1-Ignition, 3-Analog I/P, 5-Digital I/P, 3-Digital O/P (Low side), 1-Digital O/P(High side), 1-Panic Button	Enables diverse input/output functions for vehicle control.
Security	Hardware HSM, Internal Secure Memory	Protects data and enhances system security measures.
Power Supply	8-36V DC	Supports a wide range of vehicle power sources.

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UX101 - AL++

TECH SPECIFICATIONS & FEATURES

PARAMETERS	SPECIFICATIONS	FEATURES
Power Consumption	Sleep Mode: <3mA	Reduces energy use, extending device battery life.
Storage	8GB / 16GB (eMMC) - Optional	Provides ample storage for data and logs.
WIFI	Single Band Wi-Fi Module IEEE 802.11b/g/n	Enables wireless data transfer and connectivity.
Operating Temperature	-20 to +60 °C with Battery -40 to +80 °C without Battery	Ensures operation in extreme temperatures for reliability.
Humidity	95% R.H. at 50 °C	Ensures reliable performance in high humidity conditions.
Connector	PN: 643340100	Provides secure and reliable connection for components.
Dimensions (LxWxH)	151mm x 80mm x 38mm	Determines device's physical dimensions.
Weight	~ 200 grams	Indicates device's overall weight.

COMPLIANCE

PARAMETERS	SPECIFICATIONS	FEATURES
Electrical Transient Conduction Along Supply Lines Load Dump	ISO7637-2	Protects against electrical surges and system damage.
Slow Transients & Fast Transients	ISO7637-2	Protects electronics from electrical noise and surges.
Supply Voltage Range	ISO 16750-2:2012	Ensures reliable operation across varying voltage levels.
Supply Voltage Range, Power Interruption, Source Voltage Fluctuation, Short Circuit Test	ISO 16750-2	Ensures device durability under power fluctuations and faults.
Conducted Emission, Radiated Emission	CISPR25	Minimizes electromagnetic interference, ensuring signal integrity.
ESD Immunity	ISO 10605:2008	Protects electronics from electrostatic discharge damage.
Low & High Temperature Storage/Operating Test	ISO 16750-4	Ensures reliable performance in extreme temperature conditions.
ROHS (Restriction of Hazardous Substances)	Yes	Ensures compliance by eliminating harmful substances.
Ingress Protection	IP67	Protects against dust and water.



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OBD II

TECH SPECIFICATIONS & FEATURES



Standard OBD II Connector



Parameter Configuration through SMS



Accelerometer



CAN Available



Internal Storage Data Capacity of 6000 Records



Long Battery Backup up to 8 hours*



Plug & Play



Easy Installation & Configuration



OTA / FOTA

PARAMETERS	SPECIFICATIONS	FEATURES
Cellular	Quad-band 850/900/1800/1900 MHz	Enables global connectivity and communication.
Communication Interface	TCP/IP / SMS	Facilitates data exchange via internet and messaging.
Short Range	Bluetooth 3.0	Provides reliable wireless communication.
Navigation	GNSS, GLONASS	Provides global positioning with multiple satellite systems.
External Interfaces	CAN, K-Line	Connects with vehicle networks and diagnostic systems.
LED Status Indicators	GNSS, Process, Cellular, Power	Displays status of navigation, processing, connectivity, and power.
Power Supply	9-32V DC	Supports a wide range of vehicle power sources.
Sleep Mode Current	<10 mA	Device has an option to configure to sleep mode once the vehicle is in OFF condition.
Internal Battery	300 mAh	Offers backup power during brief outages.
Cellular / GNSS / BLE Antenna	Internal	Enable communication, navigation, and connectivity.
Movement Sensor	Accelerometer	Tracks vehicle orientation, acceleration, and movement changes.
SIM	Plastic (4FF - Nano)	Houses nano SIM card for telematics connectivity.
Data Storage	16 MBit	Stores telematics data for analysis and reporting.
Internal Storage Data	6000 Records	Holds historical data for review and analysis.
Configuration	SMS / TCP/IP / BT	Allows device setup via multiple communication methods.

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OBD II

TECH SPECIFICATIONS & FEATURES

PARAMETERS	SPECIFICATIONS	FEATURES
OTA / FOTA	Yes	The device as an option to update the configuration parameters and firmware update through maintenance server.
Operating Temp (Without Battery)	-25 to +85 Degree Celsius	Ensures operation in extreme temperatures.
Storage Temp (Without Battery)	-40 to +85 Degree Celsius	Protects device during extreme temperature storage.
Dimensions	72mm x 53mm x 30mm	Determines device's physical dimensions.
Weight	~86 grams	Indicates device's overall weight.



Standard OBD II Connector



Parameter Configuration through SMS



Accelerometer



CAN Available



Internal Storage Data Capacity of 6000 Records



Long Battery Backup up to 8 hours*



Plug & Play



Easy Installation & Configuration



OTA / FOTA

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GET IN TOUCH

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