

Connected Car Device - OBD II



iWave's OBD II device is one of the best connected car solutions, which includes all the latest communication features such as 4G LTE, GPS receiver, Wifi and Bluetooth. Also, this device supports all OBD II protocols and is integrated with Accelerometer, Gyroscope and Magnetometer sensors. With this device, you can track, monitor the driver behaviors, Car health parameters remotely from your mobile/ PC. Featuring the power efficient ARM processor, OBD II is a compact, secure and reliable connected car device.

APPLICATIONS: Connected Car application, Fleet Management systems, Car Insurance application, Vehicle Data logger, Two Wheeler Application and Mining application.

iW-RainboW-G26

HIGHLIGHTS

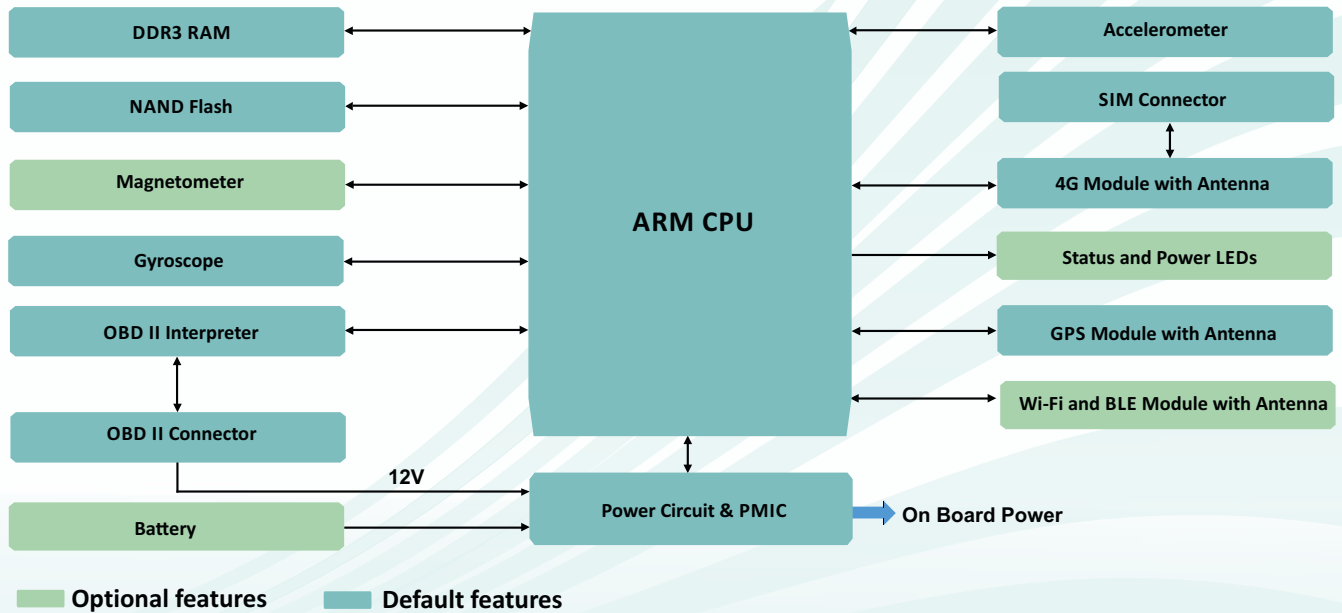
- 2G/3G/4G for Internet/ Cloud connectivity
- GPS for Vehicle location tracking
- 9 Axis Sensors Support
- J1962 compliant OBD II interface
- Wi-Fi Hot spot for Browsing
- BLE 4.0
- Battery for Anti-Theft Alarm
- Secured data communication with Multiple Clouds like Amazon AWS, Microsoft Azure, IBM Bluemix and TCP/IP Server Support
- Linux OS Support
- Light & Compact Design

SPECIFICATIONS

Hardware Features:	Status LED*
CPU: ARM Processor	eSIM*
Memory:	Wi-Fi Module (802.11b/g/n) with Antenna*
DDR3 RAM	BLE 4.0
NAND Flash	OS: Linux 3.14.38
Positioning:	Dimensions: Up to 80x52x25mm (excluding OBD II Connector)
GPS Receiver with Antenna	Temperature Support: -25 ° C to +85° C
Sensors:	Software features:
Accelerometer	Dashboard Support on Cloud/Server:
Gyroscope	Display of Car Parameters, GPS and Sensors Data with different Cloud such as Amazon AWS, Microsoft Azure and IBM Bluemix or TCP/IP server
Magnetometer*	iWave Car tracker application features:
Communication:	Live – location tracking
Cellular Support: 2G/3G/4G module with Antenna	Driver Behavior
Nano SIM card	Ignition status
J1962 compliant OBD II connector with all Protocol support: ISO-15765-4 CAN, ISO 14230 KWP2000*, ISO 9141-2*, SAE J1850 PWM*, SAE J1850 VPW*	Trip history
Power Input: 12V/24V Power Input from OBD II Port	Fuel Status etc.
Optional Features:	
USB OTG*	

Note: * Based on customer requirement, optional Features/Protocols can be supported.

Block Diagram of OBD II device



OS SUPPORT

Linux 3.14.38

DELIVERABLES

OBD II Module
 User Manual x 1
 Device configuration tool
 Power Adapter*
 Power connector Board*
 Serial Board*
 Extended OBD II Connector Cable(100cm)*

CUSTOM DEVELOPMENT

Support for retrieving the raw CAN data directly
 Support for SAE J1939 protocol
 Auto Grade Linux Support
 3G/2G Support
 Support to customers on developing their own application on the OBD II device
 NB - IoT Support (Narrowband- IoT)
 Customers to use our Design to develop & use their own private cloud, Data analytics, different applications, etc.

iWave Systems Technologies, established in 1999, focuses on Product Engineering Services involving Embedded Hardware, Software & FPGA. The company designs and develops cutting edge products and solutions. iWave has been an innovator in the development of highly integrated, high performance, low power and low cost System On Modules and Development Platforms. iWave's expertise has brought out multiple SOMs based on ARM NXP, Renesas, Qualcomm, Altera, Intel and TI Processors.

iWave System has won the confidence of its customers over the years by being a reliable partner in developing innovative products. Our engineers combine outstanding System design experience to deliver Quality Solutions. iWave specializes across Industrial, Automotive and Medical domains. We support our customers by being time efficient, which in turn helps our customers accelerate time to market their products. iWave is a Windows embedded Silver partner and a winner of the Partner Excellence Award.

Note: iWave reserves the right to change these specifications without notice as part of iWave's continuous effort to meet the best in breed specification. The registered trademarks are proprietary of their respective owners.

**Optional items not included in the standard deliverables.*



Connected Car Device - OBD II

The device can be ordered online from the iWave Website
<http://www.iwavesystems.com/webforms>
 Or from our Local Partners in your region
<http://www.iwavesystems.com/about-us/business-partner.html>

iWave Systems Tech. Pvt. Ltd.,

7/B, 29th Main, BTM Layout 2nd Stage,
 Bangalore-560076, India.
 Ph: +91-80-26683700, 26786245
 Email: mktg@iwavesystems.com
www.iwavesystems.com

iWave Japan, Inc.

8F-B, Kannai Sumiyoshi Building,
 3-29, Sumiyoshi-cho, Naka-ku,
 Yokohama, Kanagawa, Japan.
 Ph: +81-45-227-7626
 Email: info@iwavejapan.co.jp
www.iwavejapan.co.jp