

Telematics Control Unit

iW-Rainbow-G26

The Telematics Control Unit is built to power your connected mobility and telematics applications across a range of connected vehicles. Integrated with multiple CAN ports, a wide range of protocol support and a multitude of wireless connectivity options such as 4G, Wi-Fi and Bluetooth, The globally certified TCU powers applications such as predictive maintenance scheduling, fleet management and personalized driving experiences.

Powered by NXP i.MX 6ULL application processor

LINUX 5.4 BSP with software flexibility

LTE Cat 4 / Cat M1 / Wi-Fi / BT Connectivity

3 CAN Ports: 1 x CAN FD and 2 x HS CAN

Accelerometer / Gyroscope / Magnetometer

ISO 15765-4 / J1939 / CANopen / UDS / K-Line



CE F©

APPLICATIONS



www.iwavesystems.com



Telematics Control Unit iW-Rainbow-G26

Micro SIM Connector/eSIM¹

Lithium-ion Polymer (LIP)

Up to 1500mAh

0°C to 45°C

9V – 36V 5mA at 12V

| Processor | | SIM Provision |
|----------------------------|---|------------------------|
| СРИ | NXP i.MX 6ULL | SIM connector |
| RAM | 512MB DDR3L SDRAM | Dettern Deele |
| FLASH | 8GB eMMC Flash | Battery Pack |
| | | Battery Capacity |
| Wireless Connectivity | | Battery Technology |
| Cellular Connectivity | LTE Cat 4 / Cat M1 | Charging Temperature |
| Wi-Fi | 802.11a/b/g/n/ac | Power Characteristics |
| Bluetooth | Bluetooth v5.0 BR/EDR/LE | |
| Interfaces and Peripherals | | Sleep Current |
| CAN | 3 Ports (HS CAN x 2 ports CAN FD x 1 port) | Environmental |
| | | Operating Temperature |
| Ethernet | 10/100Mbps x 1 port | |
| Digital I/O | Digital Input x 1 port Digital Output x 1 port | Enclosure |
| Sensors | | Protection Class |
| Accelerometer | ±2/ ±4/ ±8/ ±16 g full scale | Mounting Options |
| Gyroscope | ±125/±250/±500/±1000/±2000 dps | Dimension |
| Magnetometer ¹ | Upto ±50 gauss magnetic range | Certifications |
| Satellite Location | | Regulatory |
| GNSS | GPS / GLONASS / BeiDou / Galileo | Software |
| | | Operating System |
| Antenna | | Protocols ¹ |

| | Operating Temperature | -40°C to +70°C ² |
|---|------------------------|----------------------------------|
| | Storage Temperature | -40°C to +85°C ² |
| | Enclosure | |
| | Protection Class | IP30 |
| | Mounting Options | Cable Tie |
| s | Dimension | 106 X 87 X 28.5 mm |
| | Certifications | |
| | Regulatory | CE / FCC / ISED |
| | Software | |
| | Operating System | Linux 5.4.70 |
| | Protocols ¹ | ISO 15765-4 CAN, ISO 11898, UDS, |
| | | K-Line, CANopen |

Note:

¹Optional features: Please contact iWave sales team at mktg@iwavesystems.com

² Temperature range subject to use case and operational functionality

RELATED PRODUCTS

Internal Antenna



Rugged Telematics Device

GNSS, Cellular, Wi-Fi/BLE

The Rugged Telematics Device with IP67 protection class is integrated with 3 CAN Ports, RS232 and RS485 Ports, with various wireless connectivity options such as 4G, Wi-Fi and Bluetooth. Rugged device is built to track your vehicles even in tough conditions.



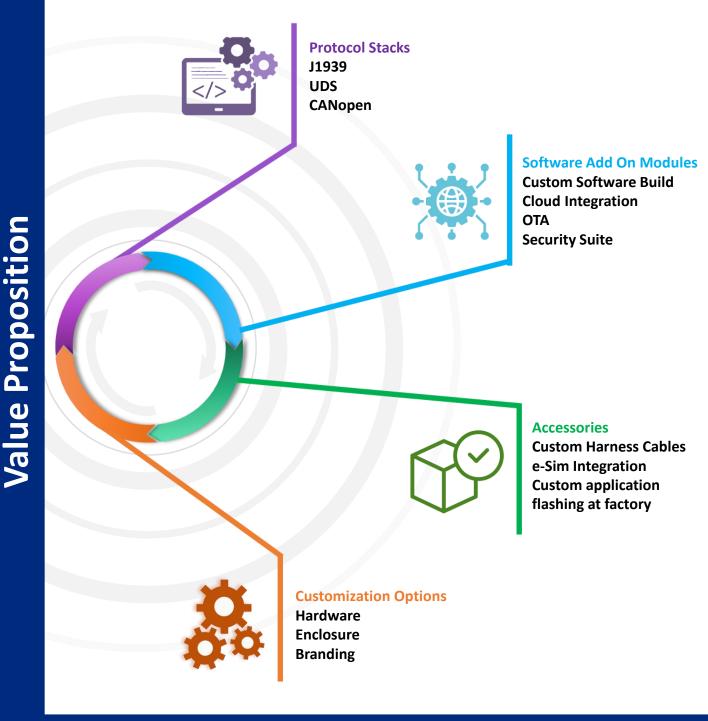
Telematics Gateway

The i.MX 8XLite powered Telematics Gateway is built with extensive interfaces: 4 CAN Interfaces, RS232, RS485, Analog Inputs and Digital Inputs. With the support for multiple protocols and powerful edge firmware, the gateway is suitable for wide range of applications.

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iWave Systems Technologies is a product engineering organization offering an extensive portfolio of Telematics Solutions, System on Modules and avionic solutions. With over 21 years of embedded industry experience and designing solutions for automotive customers across the globe, iWave is driven with the aim to be a reliable global technology partner.



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