

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.



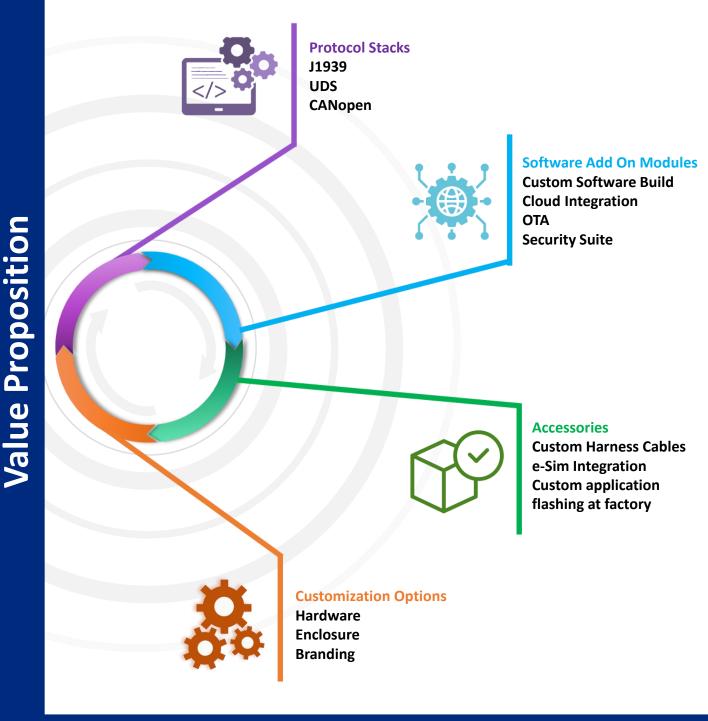
Telematics Gateway

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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