TTConnect Wave 4G

Description

TTConnect Wave 4G is designed to connect vehicles and machines to TTConnect Cloud Service platform in the easiest and most comprehensive manner in the industry. The device provides standard in-vehicle interfaces such as Ethernet and CAN in addition to its wireless and cellular interfaces. TTControl's end-to-end management system offers true plug-and-play functionality and allows customers to monitor and manage vehicles and fleets with unrivaled out-of-the-box experience. TTConnect Wave 4G enables applications that range from simple machine data monitoring and data logging, to more advanced functionalities such as prognostics and predictive maintenance.

Specifications

Unit dimensions	176 x 216 x 40 (With fasteners)	mm
Weight	650	g
Operating Temperature	-40 to +85	°C
Supply Voltage	6 to 32	V
Peak Voltage	36	V_{max}
Standby Current	3	mA_{max}
Current	1,3	A_{max}

Standards

CE-Mark	2014/30/EU
E-Mark	ECE-R10.05
FCC	Part 15
IC	ICES-003
Other regional certifications	Please consult with TTControl
EMV	ISO 11452-2 ISO 11452-4: 2005
ESD	ISO 13766
Load Dump	ISO 16750-2
Ingression Protection	EN 60529 IP67 ISO 20653 IP 6K9K
Temperature	EN 60068-2-1, -14, -78
Vibration, Shock	IEC 60068-2-64, -27

System Components

- Freescale i.MX6S application processor 32bit Cortex A9 @ 800MHz
- 4 Gb flash; 1 GB RAM
- Separate core for vehicle communications
- Internal temperature sensors for ambient and CPU temperature
- Accelerometer/gyroscope
- Real-time clock

Interfaces

- 1 x 10/100Base-TX Ethernet
- 2 x CAN
- 1 x LIN interface
- 802.11b/g/n/ac WiFi
- USB 2.0 and OTG
- 1 x RS 232
- SIM card connector interface
  EU Variant
- Penta Band LTE: 800/900/1800/2100/2600 MHz; FDD-Band (20,8,3,7,1)
- Tri Band UMTS (WCDMA):900/1800/2100 MHz; FDD-Band (8,3,1)
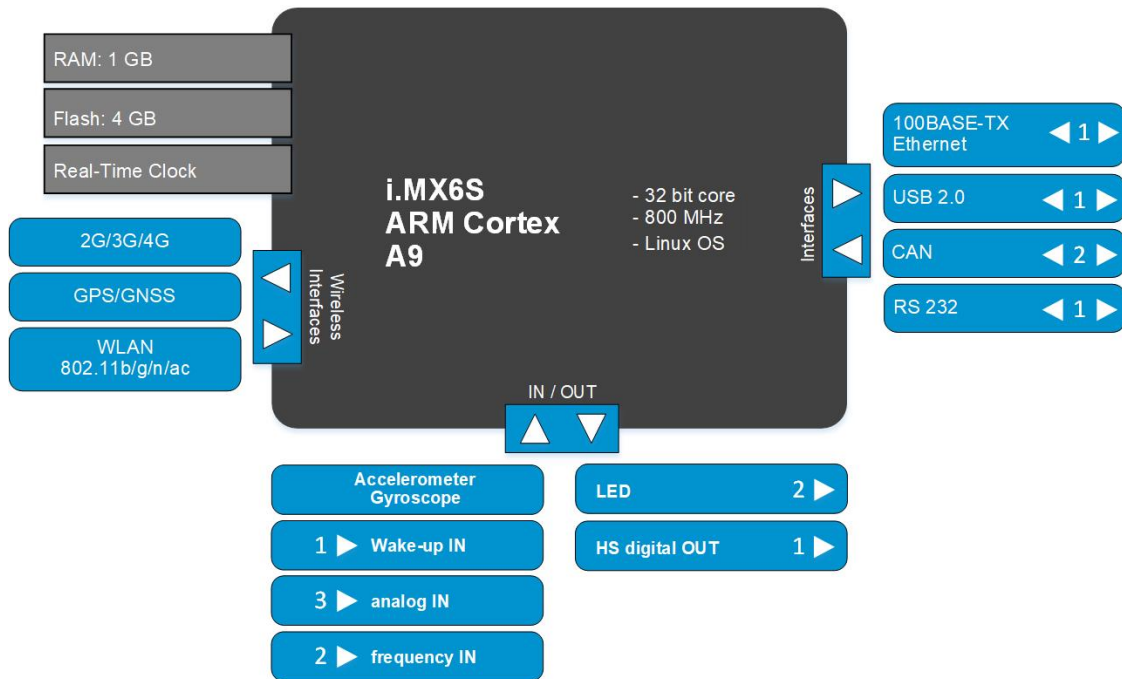- Dual Band GSM/GPRS/EDGE: 900/1800 MHz
  US Variant
- Quad Band LTE: 700/850/AWS (1700/2100)/1900 MHz; FDD-Band (17,5,4,2)
- Tri Band UMTS (WCDMA): 850/AWS(1700/2100)/1900 MHz; FDD-Band (5,4,2)
- Quad Band GSM/GPRS/EDGE: 850/900/1800/1900 MHz
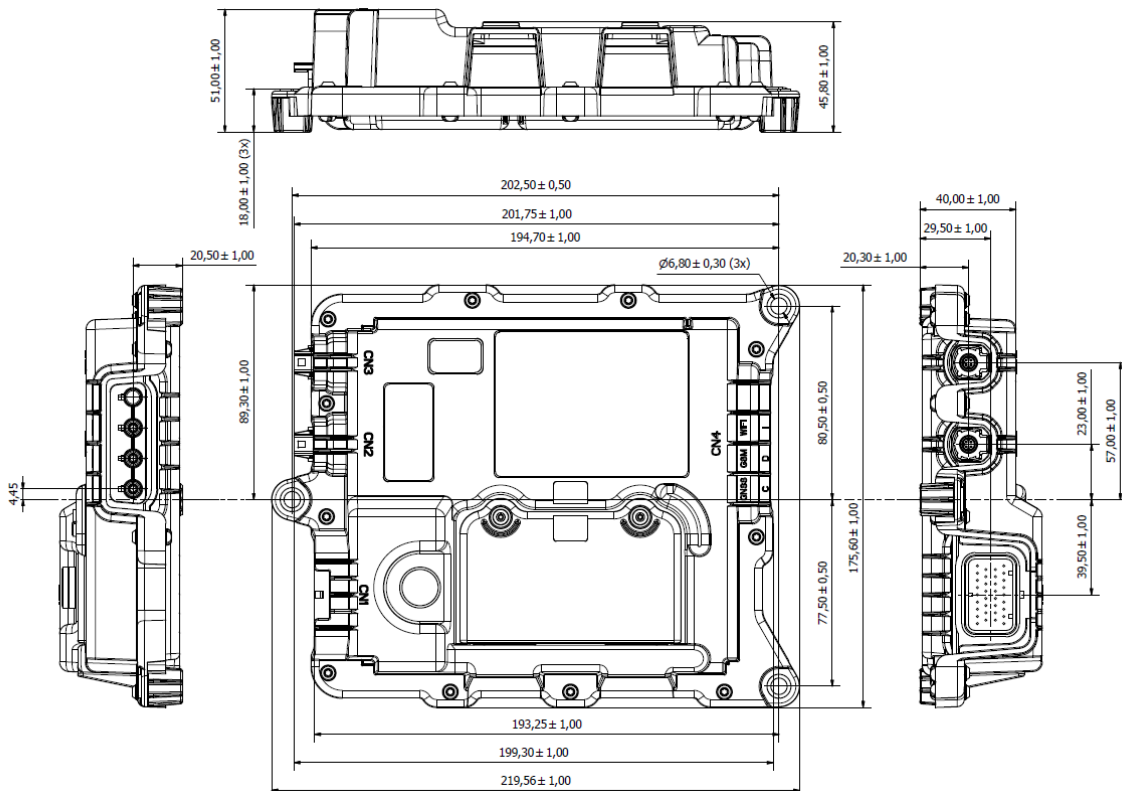
Inputs and outputs

- 3 Analog inputs
- 2 Frequency inputs
- 1 digital output HSD
- 1 wake-up input

Reverse polarity protection and protection of all external interfaces against short circuit to GND and BAT+.

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Block Diagram

Unit's housing and connectors with dimensions (not to scale)

For further information, including price and availability, please contact products@ttcontrol.com.