TTConnect Wave 4G W

Description

TTConnect Wave 4G W is designed to connect your vehicle to your preferred Cloud Service in the easiest and most robust way. The device provides standard in-vehicle interfaces, such as Ethernet and CAN, in addition to its wireless and cellular interfaces. With its broad range of LTE bands, the TTConnect Wave 4G W is a truly worldwide deployable device. From simple machine data monitoring to CAN bus logging or more advanced use cases, like predictive maintenance, the TTConnect Wave 4G W provides enough resources to fulfil all your telematics needs.

In combination with TTConnect Cloud Services, the TTConnect Wave 4G W gives you a true plug-and-play experience with no programming required. The most requested telematics features are available out-of-the box and give you a jump-start on your digitalization strategy.

Specifications

Unit dimensions	176 x 220 x 46 mm
Weight	730g
Operating Temperature	-40 to +85°C
Supply Voltage	6 to 32V
Peak Voltage	36 V_{max}
Standby Current	3 mA_{max}
Operating Current	1,3 A_{max}

Standards

Certifications	EU: CE, UN ECE R10, RED UK: UKCA US: FCC, PTCRB Canada: IC Australia/NZ: ACMA Brasil: ANATEL Chile: SUBTEL Japan: TELEC & MIC Mexico: IFETEL South Africa: ICASA Thailand: NBTC UAE: TRA (Please consult TTControl for complete list)
ESD / EMC	ISO 13766, CISPR25, ISO11452-2/-4, ISO11452-4
Electrical	ISO 16750-2 ISO7637-2
Mechanical	IEC60068-2-64 IEC60068-2-27 Ea ISO16750-3 Free fall
Ingress Protection	IP67 / IP 69K
Climatic	IEC60068-2 -1 Ae & -2 BeEN 60068-2-1, -14, -78
Corrosive	IEC60068-2 -11 ISO 16750-5:2010
Vibration, Shock	IEC 60068-2-64, -27 Ea ISO16750-3 Free fall
Environmental	RoHS, REACh

System Components

- Freescale i.MX6S application processor 32bit Cortex A9 @ 800MHz
- 16 Gb flash; 1 GB RAM
- Separate core for vehicle communications
- Internal temperature sensors for ambient and CPU temperature
- 4 Power Modes and Power Management Core
- Accelerometer/gyroscope
- Real-time clock
- GNSS: GPS, Glonass, Galileo, Beidou
- Internal Li-Ion 500mAh Battery Pack
- Linux OS

Interfaces

- 1 x 10/100Base-TX Ethernet
- 2 x CAN 2.0B (1 x isolated / ISOBUS compliant)
- 1 x LIN
- 1 x 1-wire
- 1x USB 2.0 and OTG
- 802.11b/g/n/ac WiFi Client / AP / DIRECT
- Bluetooth 4.1 and Low Energy
- 1 x RS 232
- Pyhsical SIM card interface
- Internal or external antenna possible
- 4G LTE Cat4 150Mbps down / 50Mbps up:
  - FDD-Band (1, 2, 3, 4, 5, 7, 8, 12, 13, 18, 19, 20, 26, 28, 66)
  - TDD bands (38, 40, 41)
- 3G UMTS:
  - FDD-Band (1,2,3,4,5,6,8,19)
- 2G 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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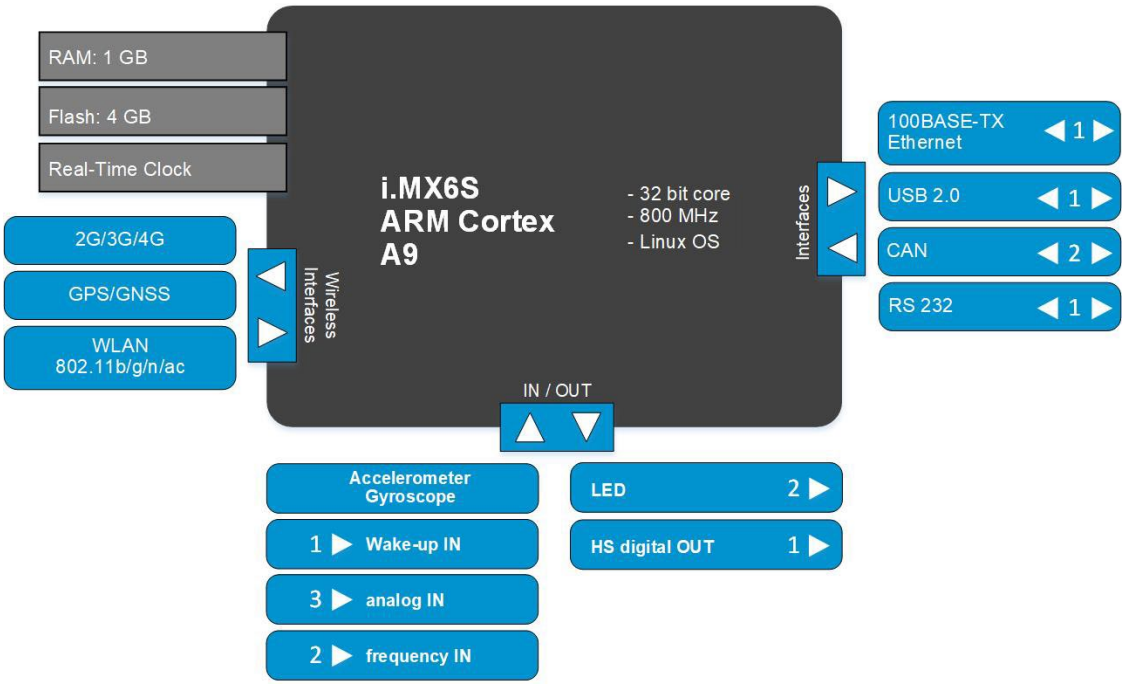
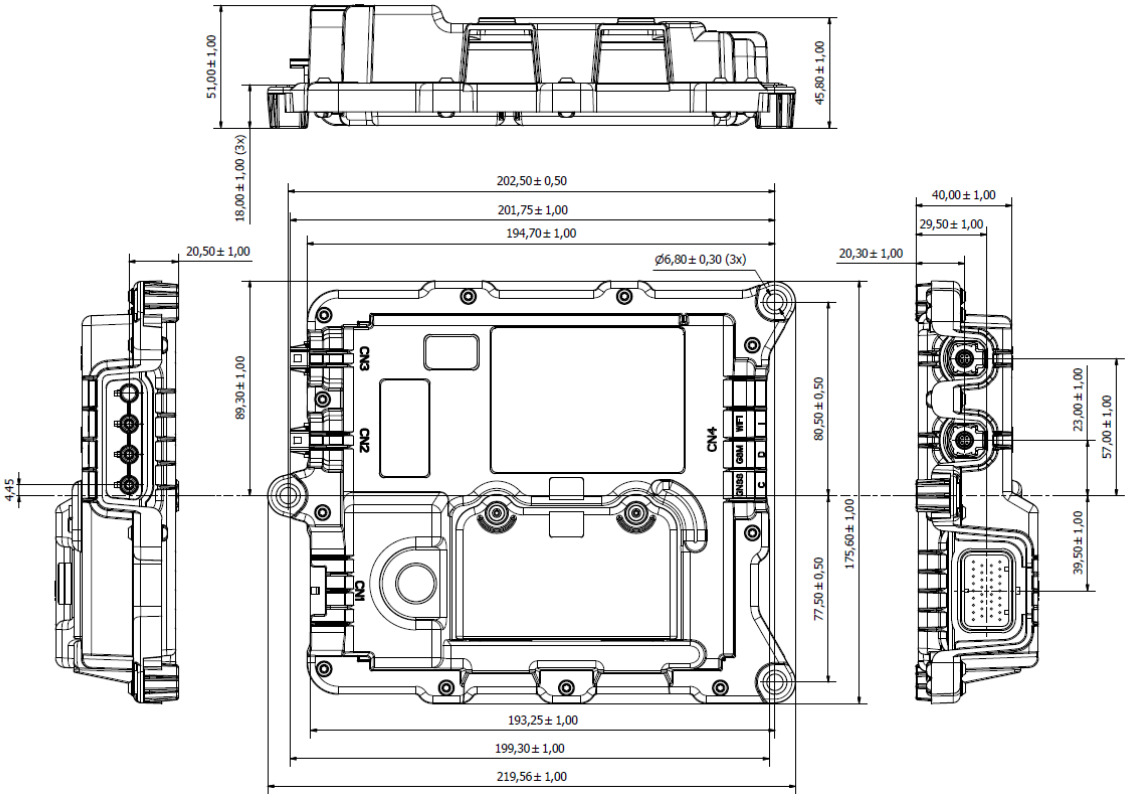
Block Diagram



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



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