

AQ20 Automotive Grade IoT Module

AQ20 is an Automotive Grade Cat 4 IoT module with 2G fall back supporting 3GPP release 10 designed for IoT and M2M applications. It delivers a maximum data rate of 150 Mbit/s DL & 50 Mbit/s UL. AQ20 supports in-built GNSS with Qualcomm® IZat™ location technology Gen8C Lite (GPS, GLONASS, BeiDou/ Compass, Galileo and QZSS), for precise and dependable positioning. AQ20 supports VoLTE and SMS over IMS/SG/CS and supports wide set Internet protocols and industry-standard interfaces.

The module comes in 2 variants - AQ20-EA for the Europe and Asia market and AQ20-NA for the North America market. AQ20 is ideal for IoT applications that involve automotive specific usecases such Smart TCU, Connected OBD Solutions and Fleet management.

Key Highlights



LTE Cat 4

GNSS

In-Built GNSS



Automotive Grade

VoLTE

VoLTE Support



SMS over IMS/SG/CS

2G

2G fallback



USB 2.0 Interface



Yocto Linux

Technical Data

Cellular Bands Supported

EMEA & APAC : LTE- 1/3/5/7/8/20/28A/40

GSM- 900/1800MHz

NA : LTE- 2/4/5/7/12/13/25/66

GSM- 900 /1800 MHz

Supported Location Services

GPS / BDS / GLONASS / BeiDou / Galileo

OS

Yocto Linux

Memory

512MB RAM/512MB ROM

Cellular Connectivity Download & Uplink Speed (* Peak Values)

LTE Cat 4: 150Mbps (DL), 50Mbps (UL)

GSM: 236.8Kbps (DL) & 236.8 Kbps (UL)

Packaging

Dimension : 33 x 37.5 x 2.8 mm, LGA Package

Interfaces

1xUSB 2.0 , 3xUART, 3xSDIO 3.0,2xSDC, 1xUSIM, 1xHSIC, 1xNetwork Indicator, 1xMobile Status Indicator, 1xSGMII, 1xPCM*, 2xI2C*, Main ANT, Diversity ANT, 1xGNSS ANT, 3xADC*, 3xMIC, 2xSPK, 3xADC