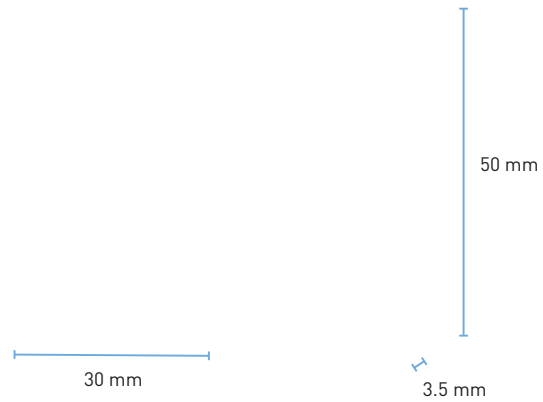




5G / LTE Data Card M.2



## Advanced LTE/5G LTE Data Card

Enabling a new generation of 5G state of the art data cards featuring both Sub-6 and mmWave technologies with LTE, WCDMA and GNSS support.

Industrial-grade M.2 form factor suitable - among others - for the following applications: High Power Fixed Wireless access, enterprise routers and gateways, indoor/outdoor CPE, video broadcasting and surveillance. Support of Qualcomm QTM525 and QTM527 mmWave antennas

## Key Benefits

- Standard M.2 (NGFF) Data-card form factor
- Support of 5G Sub-6 FDD and TDD and mmWave
- Support of SA & NSA operations, 5G core network Opt. 3a/3x and Option 2
- 4G/5G Rel. 15
- 4G Cat. 20 up to 7CAs
- 3G HSPA+ Rel 18
- State of the art GNSS receiver

AVAILABLE FOR

[NA](#)

[EMEA](#)

[APAC](#)

## Product Features

- 5G Sub-6 and mm Wave FDD and TDD, SA & NSA operations
- 5G core network Opt. 3a/3x and Opt. 2
- 4G: 7CA, up to 20 layers DL / 3CA UL, 256 QAM DL/UL
- 3G: HSPA+ Rel. 8 (DL/UL 42/11 Mbps)
- GNSS: gpsOne Gen9 L1 band on dedicated RF connector, L5 shared with cellular
- Voice support: VoLTE, VoNR (under evaluation), PCM audio over USB
- 4 antenna connectors for LTE/Sub-6
- 4 mmWave antennas supported
- 5G FR1 Bands: n1, n2, n3, n5, n7, n12, n14, n20, n28, n30, n41, n66, n71, n77, n78, n79
- 5G FR2 Bands: n257, n258, n260, 261
- LTE Bands: 1, 2, 3, 4, 5, 8, 9, 12, 13, 14, 17, 18, 19, 20, 26, 28, 71, 25, 66, 39, 29 (DL), 30, 32, 7, 38, 40, 41, 42, 43, 46 (LAA), 48(CBRS), 34, 27
- WCDMA Bands: 5, 8, 3, 4, 2, 1, 9, 19
- 5G 4x4 MIMO support on bands n1, n2, n7, n66, n3, n77, n78, n79, n41 and n30
- 4G 4x4 MIMO support on bands 32, 4, 66, 3, 2, 25, 1, 30, 40, 41, 7, 43, 42, 46, 48
- Antenna types: 4x LTE/Sub-6 + 4x QTM525/527
- FOTA Support
- Dimensions: 30 x 50 x 3.5mm

## Data Throughput

- 5G up to 5.5 DL/2.7 UL Gbps
- 4G up to 2.4 Gbps DL/211 Mbps UL
- 3G up to 42 DL/11 UL Mbps

## Environmental

- Operating temperature range: -40°C to +85°C

## Interfaces

- 1.8/3 V SIM Interface
- USB 3.1 gen2 and 2.0
- PCIe gen3
- Drivers support: Windows 10, Linux

## Approvals

- RED (planned)
- GCF (planned)
- Others (under evaluation)

## Electrical & Sensitivity

- LTE/5G sub 6 Output power - 23 dBm (power class 3)
- Supply voltage - Nominal: 3.3 VDC

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