



5G Module (G5G-X55Q)

Global Telecom's *G5G-X55Q* is the company's first 5G module -- a cutting-edge product engineered to serve as the foundational technology for smart devices in the Internet of Things. The module is designed for all types of applications that need low latency and high throughput data communication across a variety of radio propagation conditions.

It's a multi-band 5G NR / LTE-FDD / LTE-TDD module solution, with a 4x4 MIMO, M.2 interface supporting R15 5G NSA / SA with up to 4.0 Gbps data transfer speed. It has strong extension capability with rich interfaces, including PCIe, USB3.1, GPIO and more. The *G5G-X55Q* is packaged around the M.2 form factor with AT commands that are fully compatible with 3GPP standards.

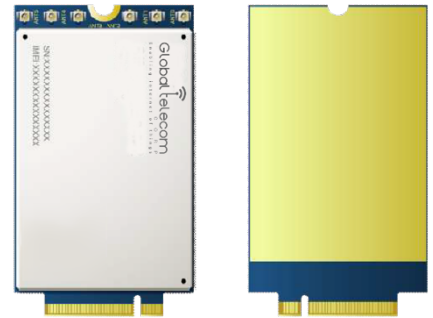
A unique combination of performance, security and flexibility makes the *G5G-X55Q* an ideal choice for organizations in need of broad applications with low financial investment and short time to market.

Key Benefits

- Standard M.2 interface
- 3G / 4G / 5G multimode support
- High throughput data communication
- Rich networking and user interfaces
- Standard AT command support

General Features

- Supply voltage range: 3.135 V ~ 4.4 V (Typical: 3.8 V)
- Control via AT commands
- Operation temperature: -30°C to 50°C
- Dimensions: 30.0 mm x 52.0 mm x 2.3 mm
- Weight: approximately 20 g
- Sub-6G / LTE-FDD / LTE-TDD / WCDMA
- GNSS: GPS / GLONASS



DATA SPEEDS

SUB-6G

- Uplink up to 300 Mbps
- Downlink up to 4 Gbps

LTE Cat 20

- Uplink up to 150 Mbps
- Downlink up to 2.4 Gbps

HSPA+

- Uplink up to 5.76 Mbps
- Downlink up to 42 Mbps

Other Features

- USB driver for Microsoft Windows Win 7 / Win 8 / Win 10
- USB driver for Linux / Android
- RIL support for Android 5.0 / 6.0 / 7.0 / 8.0
- RNDIS / NDIS / PPP / MBIM to Win 8
- Firmware update via USB
- TCP/IP / IPV4 / IPV6 / Multi-PDP / FTPS / HTTPS / MQTTS / DNS
- SSL3.0 / TLS1.0 / TLS1.2
- DTMF (sending and receiving)
- VoNR / VoLTE / CSFB
- FOTA / OTA
- AGPS / SUPL2.0
- Dedicated GNSS_L1 and GNSS_L2/L5

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Approvals

- RoHS compliant
- FCC*
- GCF*

Interfaces

- USB 2.0 with high speeds (up to 480 Mbps)
- USB 3.1 with SS Gen2
- UART
- (U)SIM card (1.8 V / 3.0 V)
- Digital audio through PCM
- I2C
- GPIOs
- PCIe Gen3

5G NR	n1 / n2 / n3 / n5 / n7 / n8 / n12 / n20 / n25 / n28 / n40 / n41 / n66 / n71 / n77 / n78 / n79
LTE-FDD	B1 / B2 / B3 / B4 / B5 / B7 / B8 / B12 / B13 / B14 / B17 / B18 / B19 / B20 / B25 / B26 / B28 / B29 / B30 B32 / B66 / B71
LTE-TDD	B34 / B38 / B39 / B40 / B41 / B42 / B43 / B48
WCDMA	B1 / B2 / B3 / B4 / B5 / B8