By adding an optional WiFi component on the 3G PCIe MiniCard, only one PCIe minicard slot is needed to integrate both WiFi and 3G connectivity to your device, hence lowering overall device cost. This module is available in \( \frac{1}{2} \) size form factor or full size form factor. For the full-size module, an optional SIM card holder and micro SD card holder can be mounted which allows an all-in-one connectivity solution on a single PCIe card.

**Physical specifications**
- PCI Express Mini Card form factor, version 1.2 type H1 (half size) / type F1 (full size)
- 26.8/51 x 30 x 4.2 mm
- Operating temperature: -10°C to +55°C certified (+70°C extended range)

**Electrical interfaces**
- 52-pin edge connector with
  - USB 2.0 Hi-Speed
  - DC power supply 3.3 V +/- 9%
  - USIM/SIM connection – Class B and Class C
  - W_DISABLE, WAKE and LED_WWAN signals

**Supported frequency bands and connectivity speed**
- GSM/GPRS/EDGE: 850/900/1800/1900 MHz
- GPRS: 85.6 Kbps DL/85.6 Kbps UL (class 12)
- EDGE: 236.8 Kbps DL/236.8 Kbps UL (class 12)
- UMTS/HSDPA/HSUPA: 800-850/900/1900/2100 (B1, B2, B5, B6, B8) at 14.4 Mbps DL/5.76 Mbps UL max speed
- (GTM669x and GTM679x only) CDMA 1xRTT/EV-DO RevB/EV-DO RevA. at 3.1 Mbps FL/1.8 Mbps RL max speed
- (GTM679x only) WiFi IEEE 802.11b/g/n in 2.4GHz band with access point capability
- gpsOne Gen8, supporting S-GPS, A-GPS, gpsOneXtra™ concurrent with Glonass