The Genesys LTE 4G Cellular Voice and Data Module adds wide area network and voice communications, worldwide*, to Genesys Modular Stack compatible equipment.

**NO MORE LIMITS.**
Genesys M2M devices are no longer limited to localised personal area networks with the LTE 4G Cellular Voice and Data Module. Insert a compatible Telstra, Optus or Vodafone mini-SIM with an associated data plan to make your M2M network extend to reach as far as the mobile network goes! Perfectly suited for in-vehicle M2M applications.

**TRADITIONAL AND MODERN COMMUNICATIONS. ALL IN THE ONE DEVICE.**
The LTE 4G Cellular Voice and Data Module supports both traditional telephony as well as Internet connections†. Your remote application can communicate with you via phone, SMS or beaming data packets back to your Network Server.

---

**CHARACTERISTICS OVERVIEW**

**SIM SUPPORT**
Telstra/Optus/Vodafone and overseas mini-SIM cards supporting LTE bands:
800/850/900/1800/2100/2600 MHz.

**DIMENSIONS**
73mm x 34mm

**CONNECTIVITY**
Genesys Modular Stack dual 40-pin connector
Optional Voice Accessory Board

---

*Guaranteed to work in regions with 4G networks supporting 800/850/900/1800/2100/2600 MHz bands or 3G UMTS and a corresponding SIM card. Please check with local network providers before use.

†A mobile plan supporting both voice and data is required for voice functionality. The LTE 4G Cellular Voice and Data Module supports data-only SIMs if voice or SMS is not required.

Genesys Modular Stack allows for easy interconnection of expansion modules. Genesys Modular Stack compliant modules feature a characteristic pair of board-to-board feedthrough connectors ensuring that they are infinitely stackable with each module adding new functionality. The Keyfob Base Board is fully compatible with Genesys Modular Stack.
**4G SPECIFICATIONS**
- Worldwide Network Support - LTE bands: 800/850/900/1800/2100/2600 MHz
- 3G fallback bands: 850/900/1900/2100 MHz
- Maximum downlink data rate: 150 Mb/s
- Maximum uplink data rate: 50 Mb/s

**I/O INTERFACES**
- mini-SIM [2FF] slot
- Genesys Modular Stack dual 40-pin connector:
  - 3V3 Power
  - 1 UART
  - Serial Peripheral Interface (SPI)
  - Inter-Integrated Circuit (I2C)
  - General Purpose Input/Output

**USB**
- USB micro A/B Device Port

**MEMORY**
- 2kb Serial EEPROM with Factory-Programmed EUI-48™ Address and Embedded Unique 128-bit Serial Number

**PHYSICAL**
- Dimensions: 73mm x 34mm

**ENVIRONMENTAL**
- Temperature (operating): -15°C to +55°C
- Temperature (survival): -55°C to +85°C
- Humidity (operating): 95% RH at 50°C

**POWER**
- Genesys Modular Stack 3V3 Power Load:
  - <20μA (Static)
  - <10mA (Dynamic)
- Auxiliary Radio Power:
  - 120-210mA (Nominal-Maximum LTE/voice, 12V input)
  - 0.35mA (Idle, 12V input)
  - <20μA (Hibernate, 12V input)

**MOUNTING DIMENSION DRAWING**

---

Product Code: GBI-MC-204

**CALL US ON +61 2 9496 8900**

Unit 5, 33 Ryde Road
Pymble NSW 2073 Australia
enquiries@genesysdesign.com.au