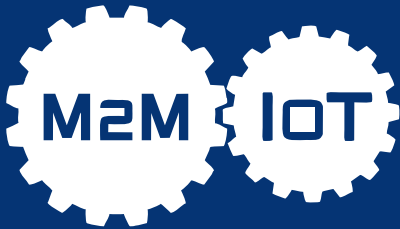


# GENESYS



## LTE 4G CELLULAR VOICE & DATA MODULE

4G MODULE with CELLULAR DATA and  
VOICE OPTIONS

Product Code: GBI-MC-204

**GENESYS**  
ELECTRONICS DESIGN

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

Unit 5, 33 Ryde Road  
Pymble NSW 2073 Australia  
[enquiries@genesysdesign.com.au](mailto:enquiries@genesysdesign.com.au)

## LTE 4G CELLULAR VOICE & DATA MODULE

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<sup>†</sup>. Your remote application can communicate with you via phone, SMS or beaming data packets back to your Network Server.

\*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.

<sup>†</sup>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.



### 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

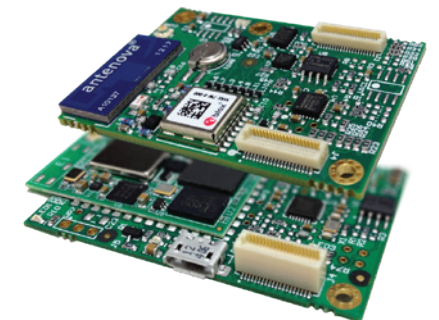


#### CONNECTIVITY

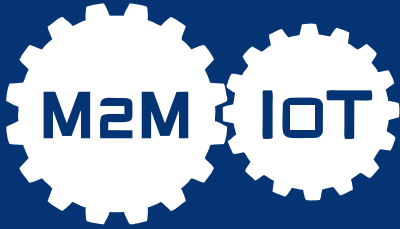
Genesys Modular Stack dual 40-pin connector  
Optional Voice Accessory Board



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.



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## CHARACTERISTICS

### 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: 50Mb/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 (I<sup>2</sup>C)
  - 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

