**3G CELLULAR VOICE & DATA MODULE**

The Genesys 3G 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 3G 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 3G 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.

*Guaranteed to work in regions with 3G networks supporting 850/900/1900/2100 MHz bands 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 3G 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 UMTS bands: 850/900/1900/2100 MHz.

**DIMENSIONS**
73mm x 34mm

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

**GENESYS MODULAR STACK**
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.
CHARACTERISTICS

3G SPECIFICATIONS
- Worldwide Network Support - WCDMA/UMTS bands: 850/900/1900/2100 MHz
- Maximum downlink data rate: 42 Mb/s
- Maximum uplink data rate: 5.6 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-Intergrated 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:
  - 90-190mA (Nominal-Maximum 3G/voice, 12V input)
  - 0.35mA (Idle, 12V input)
  - <20μA (Hibernate, 12V input)

MOUNTING DIMENSION DRAWING

Product Code: GBI-MC-201