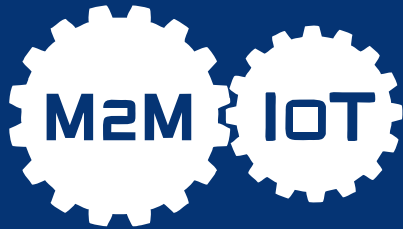


GENESYS



3G CELLULAR VOICE & DATA MODULE

3G MODULE with CELLULAR DATA and VOICE OPTIONS

Product Code: GBI-MC-201

GENESYS
ELECTRONICS DESIGN

CALL US ON +61 2 9496 8900

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

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

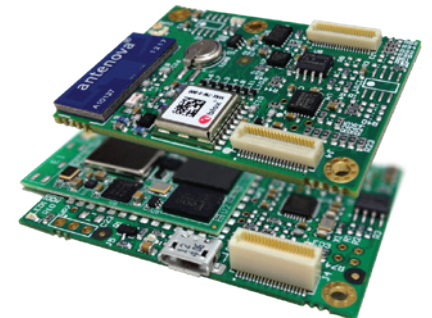


CONNECTIVITY

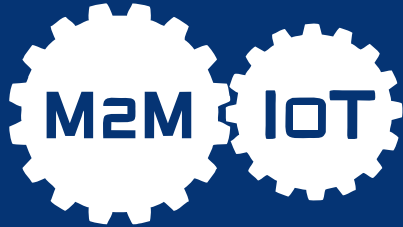
Genesys Modular Stack dual 40-pin connector
Optional Voice Accessory Board



Genesys Modular Stack 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

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-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:
 - 90-190mA (Nominal-Maximum 3G/voice, 12V input)
 - 0.35mA (Idle, 12V input)
 - <20µA (Hibernate, 12V input)

MOUNTING DIMENSION DRAWING

