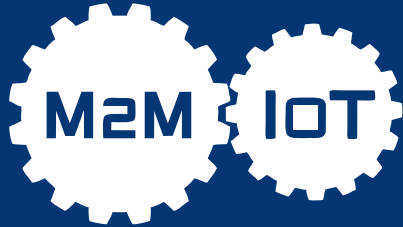


GENESYS



I/O BASE BOARD PRO

ADVANCED I/O BASEBOARD with
GENESYS MODULAR STACK and GUI
ACCESSORY OPTIONS

Product Code: GBI-BG-200P

GENESYS
ELECTRONICS DESIGN

CALL US ON +61 2 9496 8900

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

I/O BASE BOARD PRO

The Genesys I/O Base Board Pro gives you a powerful platform to build your advanced wired or wireless control network.

CONTROL OR MONITORING. IT'S YOUR CHOICE.

The I/O Base Board Pro can be augmented with the GUI Accessory Board (GBU-XN-200) which adds a backlit monochrome 128x64 LCD with 4 LEDs, 4 pushbuttons and a 4x4 keypad array. This is perfectly suited to applications like monitoring system status and assigning common tasks to pushbuttons.

EXPANDED I/O FOR UNPARALLELED FLEXIBILITY.

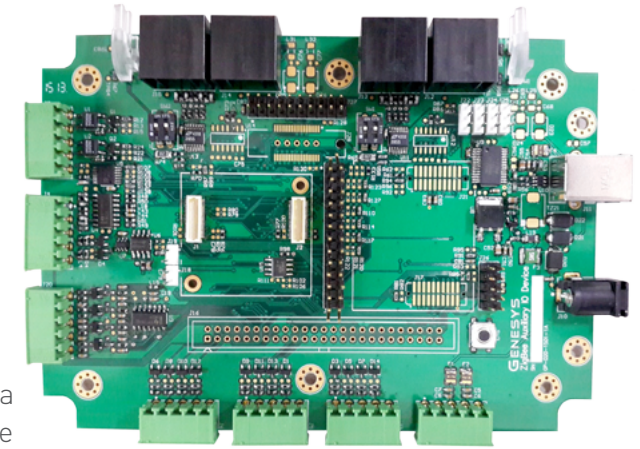
The I/O Base Board Pro has 4 A/D input and 2 D/A output channels along with 2 solid state relay outputs and 9 GPIO lines. This provides an excellent base for high complexity control systems.

INFINITE EXPANSION. INFINITE POSSIBILITIES.

Turning the I/O Base Board into a powerful processing and sensing platform is made simple with Genesys Modular Stack technology. Add on functionality such as GPS, Wi-Fi, 3G connectivity and many other features are added by simply clipping in modules.



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 I/O Base Board is fully Genesys Modular Stack compatible and features receptacles to support any number of modules.



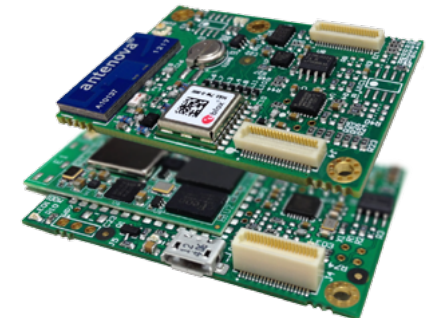
CHARACTERISTICS OVERVIEW

DIMENSIONS

110mm x 150mm

CONNECTIVITY

Genesys Modular Stack dual 40-pin connector
4 A/D Input Channels 0 to 3V3
2 D/A Output Channels 0 to 3V3
2 Solid State Relay Outputs 30V 1.2A
9 GPIO lines 0 to 3V3
4 Ethernet RS-485 capable ports
USB serial port for PC/modem interface
GUI Accessory Board (GBU-XN-200)



GENESYS



I/O BASE BOARD PRO

ADVANCED I/O BASEBOARD with
GENESYS MODULAR STACK and GUI
ACCESSORY OPTIONS

Product Code: GBI-BG-200P

GENESYS
ELECTRONICS DESIGN

CALL US ON +61 2 9496 8900

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

CHARACTERISTICS

LOCAL WIRED NETWORK

- Dual transparent RS-485/422 to RS-485/422 data piping with full or half duplex capabilities
- Looping connector for multi-drop applications
- Power feed over RS-485 cable

I/O INTERFACES

- Protected External Connections:
 - 4 A/D input channels 0 to 3V3
 - 2 D/A output channels 0 to 3V3
 - 2 Solid State Relay outputs 30V 1.2A
 - Up to 9 GPIO lines 0 to 3V3
 - Supply Output (200mA)
 - 3V3 Output (200mA)
- Genesys Modular Stack Dual 40-pin Connector:
 - 3V3 Power
 - 2 UARTs
 - Serial Peripheral Interface (SPI)
 - Inter-Integrated Circuit (I2C)
 - 6 Analogue/Digital Converters
 - Keyboard Interface
 - Timer/Counter IO
 - General Purpose Input/Outputs
 - JTAG Programmer

USB

- USB 2.0 Type B Device Port

MEMORY

- 1Mb Serial EEPROM
- 2kb Serial EEPROM with Factory-Programmed EU1-48™ Address

USER INTERFACE

- 2 Dual TX/RX indicator LEDs
- Dual status indicator LEDs
- Two pushbuttons
- Reset button
- Remote monitoring and control via mobile app
- Optional accessory board (GBU-XN-200) with 128x64 monochrome back-lit LCD, 4 user LEDs and 4 user pushbuttons or a 4x4 keypad

PHYSICAL & ENVIRONMENTAL

- Dimensions: 110mm x 150 mm
- Temperature (operating): -15°C to +55°C
- Temperature (survival): -55°C to +85°C
- Humidity (operating): 95% RH at 50°C

POWER

- Input Power Connection:
 - 50mA (Nominal, 12V Input, in typical configuration with GBI-ML-200)
- Genesys Modular Stack 3V3 Power Load:
 - <20µA (Static)
 - <10mA (Dynamic)

MOUNTING DIMENSION DRAWING

