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 backlight 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.

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I/O BASE BOARD PRO
ADVANCED I/O BASEBOARD with GENESYS MODULAR STACK and GUI ACCESSORY OPTIONS
Product Code: GBI-BG-200P

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)
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 EUI-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