

General Purpose IO

GPX-32 and PDP

The *GPX-32*™ Universal Interface gives you the cost-effective input flexibility you need to connect to a wide range of parallel world devices.

Versatile and Rack-Mountable

The *GPX-32* is a universal interface designed to support 32 parallel channels of analog, status (via opto-isolated) and control (via relay contacts) per unit. The GPX-32 translates the General Purpose Input and Output ("GPI/GPO") channels into TCP/Ethernet data streams for processing by the **Axess** software. Any number of **GPX-32** units can be deployed with a single Axess system allowing for almost unlimited GPIO expandability. As the GPX-32 is connected via Ethernet it can be installed either locally or remotely to the host Axess system for flexible deployment. The GPX-32 is a "passive" device, which means it simply relays information from devices (e.g., temperature sensors, door alarms and light switches). The GPX-32 includes built-in temperature/humidity, mains and DC voltage monitoring with both 110/240AC and 20-60VDC operation possible.

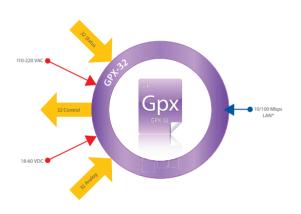




Front and Rear view GPX-32



A Division of NFB Consulting LLC 2501 East 28th Street, Suite 111, Signal Hill, CA 90755 t 310.405.0839 f 310.405.0838



Punch Down Panel Interface

The *PDP* or Punch Down Panel, is used to facilitate connection of passive peripheral equipment to the *GPX-32* interface. The unit is comprised of 4 cables, 2 x SCSI 50pin and 2 x SCSI 68pin, which interconnect between the *GPX-32* and the wiring interface. The *PDP* has PCB mounted 110 blocks, SCSI connectors and jumpers. The PCB is mounted on a 2RU metal frame to allow for easy mounting in a standard 19" EIA rack.





Front and Rear view PDP

Technical Specifications

GPX-32, Technical Specifications



Power Supply

110-220VAC, 50/60Hz via standard IEC plug

Power Supply Specifications

Input Voltage: 100 ~ 240VAC
 Input Frequency: 47 ~ 63Hz
 Input Current: 0.8A ~ 0.5A

+/-48VDC input (external battery or solar array) in the event of conventional power failure. Input via 2 position Molex connector.

DC to DC Converter Specifications

• Input Voltage: 20VDC - 60VDC

• 1500V isolation

Mating Connector: Molex Part No. 39-01-2020

• Crimp Pin: Molex Part No. 39-00-0039 #18-24AWG

Operating Temperature

-30°C to +45°C (-22°F to 133°F)

Humidity

10% to 90% RH (non-condensing)

Mechanical Dimensions

19"W X 1.75"H (1U) X 10.5"D, Standard EIA Rack Mounting

Onboard Temperature Sensor

Operating Range: -30°C to +80°C

Onboard Humidity Sensor

10% to 95% RH

Onboard Voltage Monitoring

AC Mains Voltage DC Bus Voltage

Status Indication

Data – Illuminates with the arrival of incoming host data. Error – CRC Communication Error or any general error condition. Power – DC Bus Power Good.

Network Interface

Ethernet 10Base-T or 100Base-TX (Auto-Sensing) Connector – RJ45 Indicators (LED)

- 10Base-T/100Base-TX connection
- Link and activity indicator Full/half duplex

Digital I/O

Opto-Isolated Inputs

Number of Inputs: 32 Total

I/O Connector: 0.050" 68 Pin SCSI Connector
 Input Voltage Range: +5VDC to +30VDC Non-Polarized Anode and Cathode available on isolated pins

suitelifesystems

A Division of NFB Consulting LLC 2501 East 28th Street, Suite 111, Signal Hill, CA 90755 t 310.405.0839 f 310.405.0838

Analog Inputs

Number of Inputs: 32 Balanced Differential
 I/O Connector: 0.050" 68 Pin SCSI Connector

• Input Voltage Range: +/-5VDC and +/-15VDC, selectable in 4 banks of 8=

• Input Modes:

- Differential Both AIN+ and AIN- inputs driven within voltage range however neither signal falls below a common or ground reference. The difference in the 2 signals is amplified across the full scale input of the ADC.
- Bipolar AIN+ input driven within voltage range above and below AIN- while it is held at fixed reference. The signal is amplified across the full scale input of the ADC.
- 3. Unipolar AIN+ input driven within voltage range while AIN- is held at a fixed reference. The signal is amplified across ½ full scale of the ADC.

• Input Impedance: Minimum 100K

• ADC: 16 bit, 200Ksps, +/-2LSB INL, accurate to

within +/-5% of input voltage

Relay Outputs

Number of Outputs: 32 Total

• I/O Connector: 2 X 0.050" 50 Pin SCSI Connector

1A

Contact Rating: 1A @ 30VDC
Maximum Switching Power: 30W
Maximum Switching Voltage: 60VDC

PDP, Technical Specifications

Mechanical Dimensions

• Maximum Switching Current:

19"W X 3.5"H (2U) X 3.5"D, Standard EIA Rack Mounting

Connectors

 2×0.050 " 68 Pin SCSI Connector 2×0.050 " 50 Pin SCSI Connector

Wire Specification

Solid Wire: 26 AWG Stranded Wire: 24 AWG





