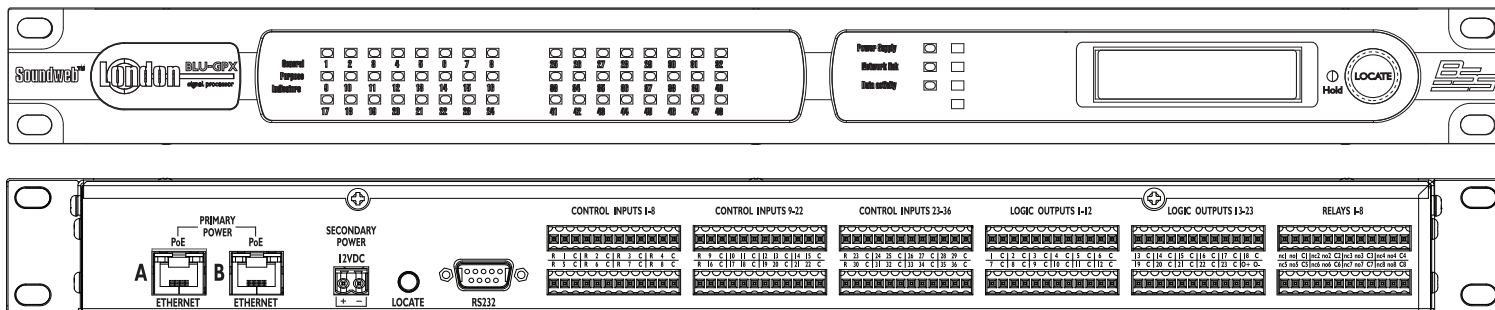


Soundweb™ London BLU-GPX



OVERVIEW:

The Soundweb London BLU-GPX is a network-controlled GPIO expander which facilitates the cost-effective addition of Control Inputs, Logic Outputs, and Relays to systems requiring extra analog control/interfacing capability. The BLU-GPX features the same rich palette of Logic Objects found in other Soundweb London devices, two PoE-enabled Ethernet ports for communications and primary power, a 12VDC power connector for secondary power, a RS-232 port for compatibility with serial devices, a bank of user-configurable front panel LEDs, a user-configurable piezo buzzer for audible indication, and locate functionality.

The BLU-GPX has 36 Control Inputs. As with the Control Inputs found on other Soundweb London devices, these Control Inputs can be connected to contact closures for controlling binary parameters, resistor ladders for controlling multi-state parameters, or potentiometers for controlling continuous parameters.

The BLU-GPX has 23 Logic Outputs. As with the Logic Outputs found on other Soundweb London devices, these Logic Outputs can be connected directly to voltage-controlled electrical components such as LEDs and relays.

The BLU-GPX has 8 integrated Relay Outputs, each with Normally Open (NO) and Normally Closed (NC) terminals. The Relays will open or close in response to HiQnet parameters, and they can be connected directly to resistance-controlled electrical components/circuits. These Relay Outputs reduce the need to source and deploy external relays.

The BLU-GPX has 47 Common (ground) connections. A multiplicity of Common connections results in simplified wiring to and from external equipment, reducing the need to span connections across terminal block connectors. Also provided are 12 Reference connections which facilitate 3-wire mode operation.

The BLU-GPX has open architecture which is fully configurable through HiQnet™ London Architect. A rich palette of logic objects and a “drag and drop” method of configuration provide a simple and familiar design environment. The device is configured, controlled, monitored, and powered via either of the two PoE-enabled Ethernet ports. The device can also be controlled and monitored via the serial port. For power source backup, an additional 12VDC connector is provided. A front panel ‘Power Supply’ LED provides convenient indication of power supply status.

On the front panel of the BLU-GPX, there are 48 software-programmable LEDs. Each LED is a multi-color indicator capable of red, green, or yellow illumination. The front panel also contains a software-programmable, monochromatic LCD with 80x16 screen resolution for text-based visual indication of user-defined events.

The BLU-GPX has a software-programmable 4 kHz piezo buzzer for audible indication of user-defined events.

A bi-directional locate function allows devices to be identified both from and within HiQnet London Architect.

The BLU-GPX and the other members of the Soundweb London family provide the building blocks of the perfectly tailored system solution.

KEY FEATURES:

- 36 Control Inputs (GPI)
- 23 Logic Outputs (GPO)
- 8 NC/NO Relay Outputs
- 47 Commons for Simple Wiring
- 12 Reference Connections for 3-Wire Mode
- 2-Wire or 3-Wire Mode Specifiable per Input Bank
- 1 Opto-Isolator for Fault Monitoring
- Rich Palette of Logic Objects
- 2 PoE-Enabled Ethernet Ports for Configuration, Control, Monitoring, Primary Power, and Redundant Comms
- 12VDC Secondary Power Connector for Power Source Backup
- 48 User-Configurable LEDs (Front Panel)
- User-Configurable LCD (Front Panel)
- 4kHz Piezo Buzzer for Audible Indication
- Bi-Directional Locate Functionality



Soundweb™ London BLU-GPX

TECHNICAL SPECIFICATIONS:

Control Ports:	36 inputs and 23 outputs, 3.5mm Phoenix/Combicon
Control Input Voltage:	0 to 4.5v
Control Input Impedance:	4.7k Ω to +5V (2-wire mode), >1M Ω (3-wire mode)
Logic Output Voltage:	0 or +5V unloaded
Logic Output Impedance:	440 Ω
Logic Output Current:	10mA source, 60mA sink
Relays:	8 isolated, N/O, N/C, Common terminals, 3.5mm Phoenix/Combicon
Watchdog Output:	Phoenix/Combicon connector for failsafe control
Opto Output Current:	14mA maximum
Withstanding Voltage:	80V maximum (Off)
Series Impedance:	220 Ω (isolated)
Control Network:	
Connectors:	RJ-45 Ethernet connector, DB-9 male RS232
Maximum Cable Length:	100m/300ft on Category 5 cable between device and Ethernet switch
Power and Dimensions:	
Primary:	IEEE802.3af Power over Ethernet (PoE)
Secondary:	12VDC, 19W external power supply
Operating Temp. Range:	5(41) to 35(95) degrees C(degrees F)
Dimensions (HxWxD):	1.75" (45mm) x 19" (483mm) x 7.75" (197mm)
Weight:	2.96 lbs / 1.34 kg
Front Panel:	
LED Indicators:	48 Software-Programmable LED Red/Green/Yellow Indicators. Power Supply, Network Link, and Data Activity
Other:	LCD display, Locate Button

BSS Audio incorporates high quality mechanical fans in some products. All mechanical fans have a limited life expectancy. We recommend annual inspection of fans for dust occlusion and excessive noise. Fan assemblies should be replaced after six to ten years of use. Environmental factors such as elevated temperature, dust, and smoke can adversely affect fan life. Systems exposed to these conditions should be inspected more frequently. Fan replacement can be performed either at the factory or by an experienced technician in the field. Please contact BSS Technical Support for more information on purchasing replacement parts or product service.

BSS Audio has a policy of continued product improvement and accordingly reserves the right to change features and specifications without prior notice.