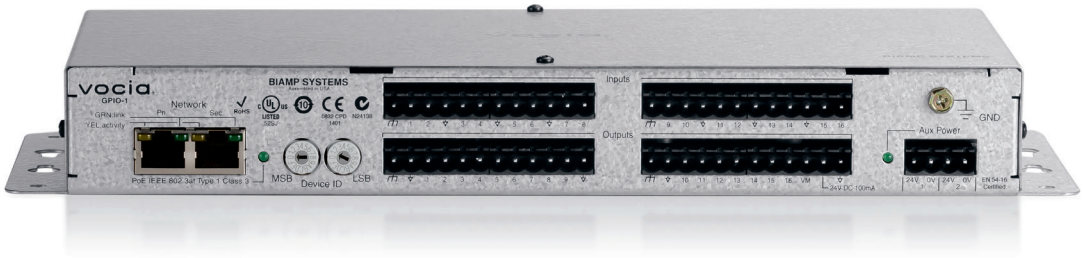
DATA SHEET
VOCIA® GPIO-1
GENERAL PURPOSE I/O DEVICE



The GPIO-1 is a networked device that serves as an extension interface between a Vocia system and emergency or fire alarm systems when used in conjunction with a Vocia® enhanced life safety interface (LSI-16e) or independently for connection to general purpose control systems. The GPIO-1 provides sixteen general purpose inputs and sixteen general purpose outputs to control various aspects of a Vocia system. The GPIO-1 is a monitored device and can be used in life safety applications where more logic inputs or outputs are required. The GPIO-1 has dual powering from PoE Ethernet ports and alternate powering from dual 24V DC inputs. In the event of power loss changeover between power sources will provide uninterrupted operation.

FEATURES

- Accepts triggering of recorded message page codes – requires MS-1 to support functionality
- Sixteen general purpose logic inputs and sixteen general purpose outputs
- Device monitoring
- Able to be used to directly interface with fire alarm and emergency equipment (system must have LSI-16e available)
- PoE capable with alternate powering from auxiliary 24V DC supply (dual inputs)
- Software-configurable
- Control over a single Ethernet cable
- Dual Ethernet ports for redundancy
- Each general purpose input can be programmed as TTL, high range or monitored high range
- General purpose inputs allow monitoring for short to ground and open circuit
- Rotary switches for device identification
- IP30 Compliant
- EN 54-16 certified, CE marked, UL listed and RoHS compliant
- Covered by Biamp Systems' five year warranty

ARCHITECTS & ENGINEERS SPECIFICATION

The general purpose input/output device shall be designed exclusively for use with Biamp® Vocia systems. It shall provide a networked emergency interface to third party emergency and alarm systems as well as standard logic control systems. It shall have redundant power supply and network connections. The general purpose input/output device shall be powered from a certified 24V DC power source or over Ethernet (PoE) via either of two network ports. It shall have sixteen monitored inputs and 16 outputs. It shall work in conjunction with the Vocia enhanced life safety interface (LSI-16e) for emergency systems. The general purpose input/output device shall also function independently for integrating with standard logic control systems. It shall be CE marked, UL listed and shall be compliant with the RoHS directive. Warranty shall be five years. The general purpose input/output device shall be a Vocia GPIO-1.

biamp.
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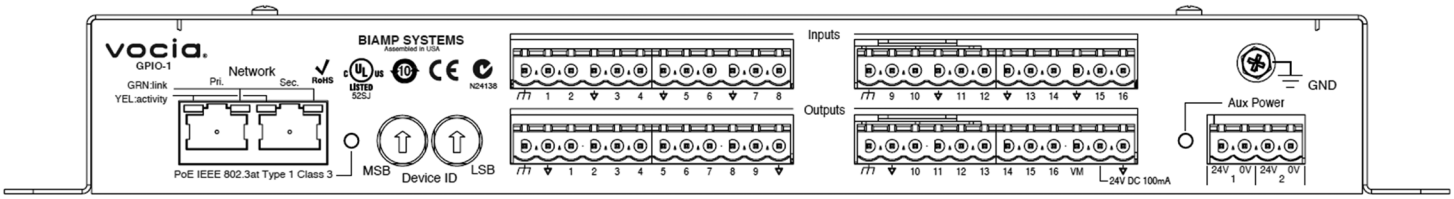
VOCIA GPIO-1 SPECIFICATIONS

Network Connection:	Dual RJ45 with shielded Ethernet (CAT5, CAT5e, CAT6, or CAT7)
General Purpose Outputs:	
Quantity:	16
Type:	FET Switch, open drain (low side driver)
Max Continuous Current:	0.35VA
Current Limit:	0.8A
Maximum External Supply:	30V DC
VMon Input Shutdown:	35V DC
General Purpose Inputs:	
Quantity:	16
High Range Logic Low:	0-8V DC
High Range Logic High:	12-30V DC
TTL Logic Low:	0 – 0.8V
TTL Logic High:	2-5V
Voltage Monitor:	4-30V DC
Input Transient Protection:	± 8kV Peak
Input Isolation:	500V RMS

Overall Dimensions:	
Height:	1.6 inches (41 mm)
Width:	12.5 inches (370 mm)
Depth:	5 inches (128 mm)
Weight:	2.4 lbs (1.1 kg)
Power:	
PoE:	802.3af Class 3 802.3at Type 1 Class 3
DC Power:	24V; <100mV Ripple 15W
Environment:	
Ambient Operating Temperature Range:	23-104° F (-5 – 40° C)
Humidity:	0 – 95% non-condensing
Altitude:	0 – 10,000 Feet (0 - 3,000 Meters) MSL
Compliance:	
	EN 54-16 Certified FCC Part 15B (USA) CE marked (Europe) UL and C-UL listed (USA and Canada) RoHS Directive (Europe)

VOCIA GPIO-1 FRONT PANEL