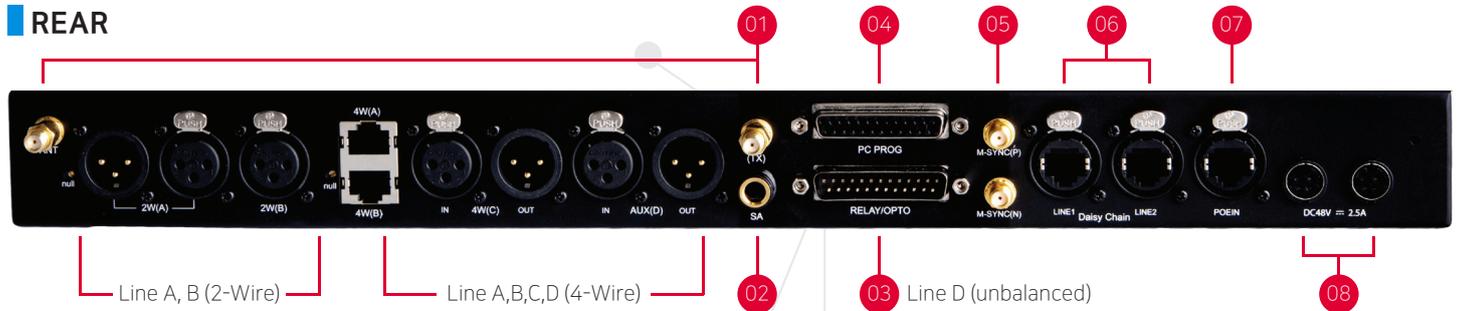


FRONT



- 01 Loudspeaker, 3 watts
- 02 Microphone on/off, Loudspeaker on/off & Menu button with LED
- 03 RMK(Remote Mic. Kill), SA(Stage Announce) & TTA(Talk To All) button with LED
- 04 Master Volume rotary control, Set Dim/Cut/Sidetone by pressing
- 05 Ch1~Ch8 Volume rotary control, Push to Call
- 06 Ch1~Ch8 Talk key with LED
- 07 Gooseneck microphone connector (XLR3F)
- 08 Headset connector (6pin Mini-Din Receptacle)
- 09 Antenna mounting hole
- 10 Display screen

REAR



- 01 Antennas
- 02 Stage Announce
- 03 Relay/Opto/Line D
- 04 Firmware upgrade (D-sub 25pin Female)
- 05 Multi-Sync (Ethernet Synchronization)
- 06 Daisy-chain PoE
- 07 PoE input
- 08 48VDC 2.5A Power input

Genie is the industry's first converged IP digital intercom system enabling both IP Key Panel and 5GHz wireless communications in one system. Genie is a daisy-chain PoE scalable solution facilitating connections across an entire studio, theatre or stadium through CAT5e STP or fiber cable offering various communication routings with the best-in-class audio clarity and low system latency. The system comprises a Base Station, IP Key Panel, Remote Antenna, Repeater, IP Speaker Station, IP Beltpack and Wireless Beltpack. Depending on the system configuration and requirement, Genie offers various redundant solutions with an optional dual power. Genie Key Panels are matrix-free IP networking intercom system designed to be used independently or in conjunction with Genie. With Panels, varied audio paths can be configured such as peer to peer or group (multiple Panel) communications, Genie group channel communication, Line connection, Line audio routing and IFBs. License-free and channel-rich 5GHz UNII band secures reliability on wireless communication in congested environments. Genie Configuration Manager(GCM) supports for an efficient system configuration and setup with an integrated management of the system. Also, the connection status and RF channel in use for each antenna can be monitored with full visibility.

GENIE devices at a glance

Model	Product name	Talk key	4W or 2W Line	4W Line	Daisy-chain PoE	PoE In	Relay	OPTO Input	Multi-Sync	Power Redundancy
BS1000	Base Station	8	2	2	2	1	2	2	0	2+ (3x PoE)
BS850	Base Station	1	-	2	-	-	-	-	0	1
RA100DW	Remote Antenna, IP53-65 sealing	-	-	-	2	1	-	-	0	1+ (3x PoE)
RA100	Remote Antenna	-	-	-	-	1	-	-	-	PoE
RBS85	Repeater	-	-	-	-	1	-	-	-	PoE
BP850(850S)	Wireless Beltpack	2 (4*)	-	-	-	-	-	-	-	Battery
GRP8(GXP12/GDP4)	Rack(Rack/Desk or Wall) Panel	8 (12/4)	-	4	2	1 (0/1)	2	2	-	2+ (3x PoE)
ISS800	Speaker Station	8	2	2	2	1	2	2	-	2+ (3x PoE)
IBP10	Ethernet Beltpack	4	-	-	2	-	-	-	-	2x PoE

GENIE system capacity

Description	Base Station BS1000	Base Station BS850	Remote Antenna	Repeater
Connection of Remote Antenna RA100(DW)	6	3	-	-
Connection of Repeater RBS85	60	30	10	-
Connection of wireless Beltpack (BP850, BP850S)	128	128	128 With Base Station	128 with RA100
Connection of Ethernet Beltpack IBP10	120	60	10	-
Connection of Speaker Station ISS800	120	60	10	-
Full-duplex audio paths	70	40	10	10 with RA100
Connection of Panels (GRP8, GDP4)	The Panels can be operated with or without a connection with GENIE Base Station. Up to 20 Panels can be paired to a Remote Antenna/System			

Base Station BS1000 Main Features

- ▶ Hybrid Base Station for wireless and IP Key Panel intercom connection
- ▶ Panel type station with 8 Talk keys and Call switches
- ▶ Operates in channel-rich 5GHz UNII band frequency
- ▶ Highly scalable Ethernet Remote Antenna and Repeater solution
 - Up to 6 Remote Antenna and 60 Repeater connection
- ▶ 32 Key Panels connection with a Base Station
- ▶ 128 Wireless Beltpacks are freely connected to any antenna and any of 128 Wireless Beltpacks in master mode
- ▶ Up to 120 Ethernet Speaker Station or Ethernet Beltpack connections
- ▶ 70 full-duplex channels with a Base Station and 6 Remote Antennas
- ▶ 5 Group communication channels for a BS1000 and all other Genie devices
- ▶ Excellent performance with 7.2KHz audio bandwidth and 23ms low latency
- ▶ Top security with AES 256 bits level III encryption
- ▶ 4 Lines (4-wire, 2-wire and auxiliary I/O), Relays and Opto-isolated inputs
- ▶ Direct connection with a Walkie Talkie system (Unbalanced audio)
- ▶ Ethernet synchronizations to avoid possible RF interference, packet loss, delay or jitter
- ▶ PoE Daisy-chain ring connection or Star topology enabled
- ▶ Optional dual power and on demand redundant solutions
- ▶ System configuration, setting and monitoring with Genie Configuration Manager(GCM)

Base Station BS1000 Specification

RF Frequency	UNII band: 5.16GHz~5.34GHz, 5.48GHz~5.70GHz, 5.745GHz~5.865GHz
Antenna	Two external 1/2 -wave dipole, SMA female
Modulation Type	QPSK
Frequency Stability	± 2ppm
RF Sensitivity	-85dBm for 5 BER
Beltpacks per Base Station	128 wireless Beltpacks can be paired, and eleven (11) full-duplex audio paths are provided without an additional antenna.
Communication Group	Five(5)
Audio Bandwidth	200 Hz to 7.2 kHz
Audio Dynamic Range	>70dB
S/N	>95dB @ 1Khz
Loudspeaker	3 watts
Headset output	500mW into 32 Ohm
Latency	One-way system latency less than 23ms direct
Communication Security	256 bits key AES level 3 Encryption
Front Panel Display	Two OLED, 128 x 64 Resolutions
Front Panel Button	LED indicated Buttons and Rotary encoders
Headset	Dynamic or Electret, 6-pin Mini-Din male, Receptacle
Gooseneck	Dynamic or Electret, XLR-3F

Line A (2-Wire)	XLR-3F with XLR-3M loop through
Line B (2-Wire)	XLR-3F
Line A and Line B (4-Wire)	Two RJ-45, 600Ω balanced, level adjustable
Line C (4-Wire)	Input: XLR-3F Output: XLR-3M, 600Ω balanced, level adjustable
Line D (4-Wire) Input	XLR-3F, 600Ω balanced, level adjustable
Line D (4-Wire) Output	XLR-3M, 600Ω balanced, level adjustable
Stage announce output	Phone Jack (6.3Φ), Transformer isolated, Line-level output
Multi-Sync ports	SMA Female. Up to 5 Base Stations may be connected for Ethernet synchronization
PC PROG	25-pin D-type female, Upgrading the Base Station firmware
Relay/Opto/AUX(D)	3 Relay outputs, 2 Opto inputs, AUX I/O (Unbalanced)
PoE Input	PoE RJ-45 Connector, Standard PoE specification
Daisy-chain PoE Line1, Line2	Two PoE RJ45(Ethercon) Standard PoE specification
Power Input	Two 48-56VDC at a max power of 90Watt or PoE from the Network Switch The external PSU provides the 48VDC 2.5A, 100-240VAC, 47-63Hz.
Operating Temperature	0°C to 50°C (32°F to 122°F)
Dimensions	16.83W x 8.03L x 1.73H inch (42.75W x 20.4L x 4.4H cm)
Weight	7.716 lb (3500g)