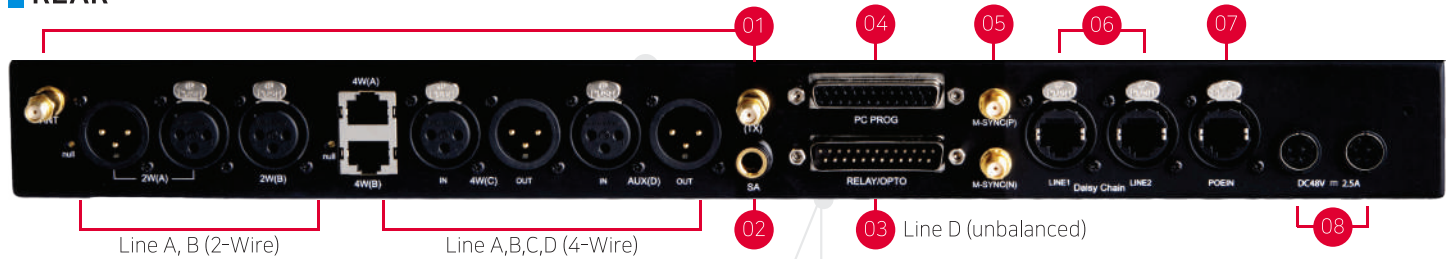


**FRONT**



- 01** Loudspeaker
- 02** Microphone on, Loudspeaker on, Menu (LED indicator)
- 03** Remote Mic. Kill, Stage Announce, Talk To All (LED indicator)
- 04** Master Volume, Push to select DIM, CUT, Sidetone
- 05** CH1-CH8 Volume, Push to Call
- 06** CH1-CH8 Talk key (LED indicator)
- 07** Headset connector (6pin Mini-Din Receptacle)
- 08** Gooseneck microphone connector(XLR3F)
- 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 Line Out
- 07** PoE input
- 08** 48VDC 2.5A Power input

Genie is the industry's first converged digital IP 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 Beltpack, Wireless Beltpack, Wireless IFB Receiver, Line Router and WAN Link. 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 wireless devices. The Key Panels provide various audio paths such as peer-to-peer talk and listen, allocation of multiple key panels on a key (group key), interoperation with Genie group channels(conference mode), Line connections, Line audio routings and IFBs. Also, a license-free and channel-rich 5GHz UNII band secures for the better reliability on wireless connections and communications in congested environments. GCM(Genie Configuration Manager) supports for an integrated system management with an efficient configuration and setting. The connection status and RF channel in use of each antenna can be monitoring 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          | ○          | (2x PSU) + PoE   |
| BS850      | Base Station                    | 1        | -             | 2       | -               | -      | -     | -          | ○          | PSU              |
| RA100DW    | Remote Antenna, IP53-65 sealing | -        | -             | -       | 2               | 1      | -     | -          | -          | PSU + PoE        |
| RA100      | Remote Antenna                  | -        | -             | -       | -               | 1      | -     | -          | -          | PoE              |
| RBS85      | Repeater                        | -        | -             | -       | -               | 1      | -     | -          | -          | PoE              |
| BP850(851) | Wireless Beltpack               | 2 (4*)   | -             | -       | -               | -      | -     | -          | -          | Battery          |
| WR850      | Wireless Receiver               | -        | -             | -       | -               | -      | -     | -          | -          | Battery          |
| IBP10      | Ethernet Beltpack               | 4        | -             | -       | 2               | -      | -     | -          | -          | PoE              |

## GENIE system capacity

| Description                                   | Base Station BS1000        | Base Station BS850        | Remote Antenna | Repeater RBS85           |
|---|----------------------------|---------------------------|----------------|--------------------------|
| Connections of Remote Antenna RA100DW/RA100   | 6                          | 3                         | -              | -                        |
| Connections of Repeater RBS85                 | 60 with 6 Remote Antennas  | 30 with 3 Remote Antennas | 10             | -                        |
| Connections of Wireless Beltpack BP850/BP851  | 128                        | 128                       | 128            | 128                      |
| Connections of IP Beltpack IBP10              | 120 with 6 Remote Antennas | 60 with 3 Remote Antennas | 20             | -                        |
| Simultaneous Talk paths                       | 70 with 6 Remote Antennas  | 40 with 3 Remote Antennas | 10             | 10 with a Remote Antenna |
| Listen paths                                  | Min. 128                   | Min. 128                  | Min. 128       | Min. 128                 |
| Description                                   | Connections                |                           |                |                          |
| Recommended multiple Base Stations connection | Up to 5                    |                           |                |                          |
| Base Stations paired with a BP850/BP851/WR850 | Up to 5                    |                           |                |                          |
| Base Stations paired with IBP10               | Up to 2                    |                           |                |                          |

## BS 1000 Main features

- ▶ Hybrid Base Station for Wireless Beltpack, Wireless IFB Receiver, IP Beltpack and IP Key Panel connections
- ▶ 8 Talk keys and Call buttons
- ▶ Operates in channel-rich 5GHz UNII band frequency
- ▶ Highly scalable Ethernet Remote Antenna and Repeater solution
  - Up to 6 Remote Antennas and 60 Repeaters connection
- ▶ 128 Key Panels or IP Beltpacks connection per system
- ▶ 128 Wireless Beltpacks or Wireless IFB Receivers are freely connected to any Genie antennas
- ▶ Any of 128 Wireless Beltpacks can be in master mode
- ▶ 5 Genie group channels(conference mode) for all Genie devices
- ▶ A Base Station with 6 Remote Antennas provides up to 70 simultaneous Talk paths and unrestricted Listen paths.
- ▶ Excellent audio clarity 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 AUX 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 GCM

## BS 1000 Specification

|                            |   |
|----------------------------|---|
| RF Frequency               | Use 20MHz channels within the 5GHz UNII band from 5180 - 5845MHz depending on regions   |
| Antenna                    | 2 x external 1/2 -wave dipole, SMA female   |
| RF Modulation              | QPSK  |
| Beltpacks per Base Station | 128 Wireless Beltpacks or Receivers can be paired with a Base Station. 10 Talk and 128 Listen paths are supported without an additional Remote Antenna. |
| Genie group channels       | Five(5) conference channels   |
| Audio Bandwidth            | 200 Hz to 7.2 KHz   |
| Loudspeaker                | 3watts  |
| Headset output             | 500mW, 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  |
| Front Panel Button         | 8 Talk key, LED indicated Buttons and Rotary encoders   |
| Headset                    | Dynamic or Electret, 6-pin Mini-Din male, Receptacle  |
| Gooseneck mic.             | 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 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 Station connections  |
| PC PROG                        | 25-pin D-type female, Upgrading the firmware  |
| Relay/Opto/AUX(D)              | 3 x Relay outputs, 2 x Opto inputs, AUX I/O (Unbalanced)  |
| PoE Input                      | RJ-45 Connector, 100Mbps Standard PoE specification   |
| Daisy-chain PoE Line 1, Line 2 | Two PoE RJ-45 Connectors, 100Mbps Standard PoE specification  |
| Power Input                    | Consumption: 17 watts<br>Two 48-56VDC inputs, PoE input<br>An external PSU provides 48VDC 2.5A, 100-240VAC, 47-63Hz |
| Operating Temperature          | 0°C to 50°C (32° F to 122° F)   |
| Dimensions                     | 16.83W x 8.03D x 1.73H inch (42.75W x 20.4D x 4.4H cm)  |
| Weight                         | 7.72 lb (3500g)   |