

# CONVERGED DIGITAL INTERCOM SYSTEM GENIE

Ethernet Beltpack +  
5GHz Wireless Beltpack  
connections in  
One(1) system



LaON's new generation system, GENIE is the industry-first converged digital intercom system turning into a whole new creativity from a traditional concept of the intercom system. With GENIE SOLO, 6 Remote Antennas, 60 Speaker Stations, 60 Ethernet Beltpacks or 60 Repeaters can all be connected through PoE with a Base Station while having 128 Wireless Beltpacks connections at the same time. By this boundaryless hybrid solution of wired or wireless, GENIE offers a highly scalable and flexible system configurations and capabilities. GENIE provides easy-to-extend system structure from an initial small system to a large scale of system tier by tier upon the requirement.

Also, GENIE Configuration Manager (GCM) supports for an efficient and integrated management of the system by its easy setup and various monitoring functions with full visibility.

## License-free 5GHz UNII BAND

GENIE operates in 5GHz UNII band, the worldwide license-free frequency band that provides approximately up to 29 RF channels depending on the regions as opposed to few RF channels on 2.4GHz ISM band.

Therefore, users can enjoy pleasant wireless communications with even less traffics or interferences.

With the advantages of high frequency band, the system is also hardly affected by high-power digital equipment such as amplifiers and speakers.

## Daisy-chain PoE configurations

GENIE is a daisy-chain connection enabled system that transmits both data and power through PoE. In view of system redundancy, loopback can also be set by building a ring connection. You can easily wire and install complex systems using lightweight Cat-5/6 STP cables with even less workload for the setup.



# GENIE FEATURES

## INDUSTRY'S FIRST BOUNDARYLESS HYBRID INTERCOM SYSTEM

5GHz Wireless  
+  
Ethernet

Hybrid Wired and Wireless  
on  
One Base Station

- GENIE is a hybrid and multi-channel intercom system enabling both Wired and Wireless Beltpack communications with one Base Station
- Main system is configured by Base Station, Remote Antenna, Repeater, Ethernet Speaker Station & Beltpack and W/L Beltpack

## MULTI-CHANNEL ETHERNET DEVICES IN THE SYSTEM

BS1000 & ISS800  
4W+2W CH.    TALK CH.  
**4**    **8**

Fully Scalable and Flexible  
Multi-channel System

- 4 lines Base Station, BS1000 with 8 talk channels & keys
- Remote Antenna offers additional 10 full-duplex channels each
- 4 lines Ethernet Speaker Station with 8 talk channels & keys
- Ethernet Beltpack with 8 talk channels and 4 keys

## MATRIX-FREE IP INTERCOM YET SUPER-SCALABLE SOLUTION

GENIE SOLO  
**70**

GENIE TRIO  
**210**

Highly Scalable Full-duplex System  
In case of BS1000

- GENIE SOLO offers up to 188 Beltpack connections with 70 Full-duplex communication channel with one BS1000 Base Station
- GENIE TRIO offers up to 564 Beltpack connections with 210 Full-duplex communication channel with three BS1000 Base Stations

## LICENSE-FREE AND CHANNEL-RICH 5GHz UNII BAND

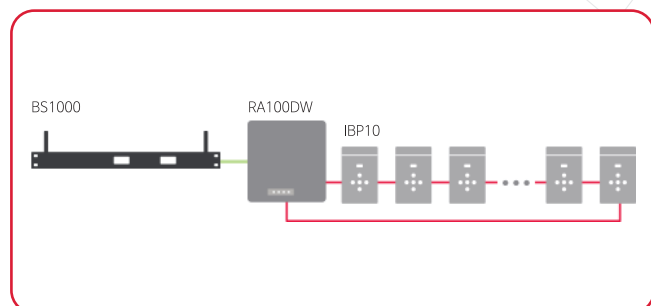
2.4GHz CH.  
**4**

5GHz CH.  
**29**

Pleasant Wireless Communications and Connectivity

- GENIE operates in 5GHz UNII band for wireless communications
- Up to 29 RF channel option on 5GHz offers reliable connectivity
- High performance audio quality with low latency
- Enhanced wireless coverage based on in-house RF technology

## SEAMLESS, RELIABLE, AND EASY-TO-DESIGN & EXTEND



- Highly efficient Daisy-chain enabled PoE scalable connections
- Ethernet Synchronization technology for excellent connectivity
- Dual power Base Station, BS1000 & Speaker Station, ISS800
- Power and Data redundant system configuration

## GENIE CONFIGURATION MANAGER(GCM)

**GENIE**  
CONFIGURATION  
MANAGER

Convenient tool enabling Integrated system management

- GCM software program supports for an easy and quick settings over an Ethernet connection
- Various monitoring options - setting values, connectivity & RSSI
- Integrated system management and restore function



**2 Line Base Station | BS850**



**4 Line Base Station | BS1000**

- 8 TALK channels with keys



**Remote Antenna | RA100**

- 10 full-duplex comms. channels



**Remote Antenna | RA100DW**

- Daisy-chain enabled with Environmental sealing
- 10 full-duplex comms. channels



**Repeater | RBS85**

- Up to 10 repeaters per Remote Antenna



**Wireless Beltpack | BP850**

- Enhanced radio space



**Ethernet Speaker Station | ISS800**

- 8 TALK channels with keys

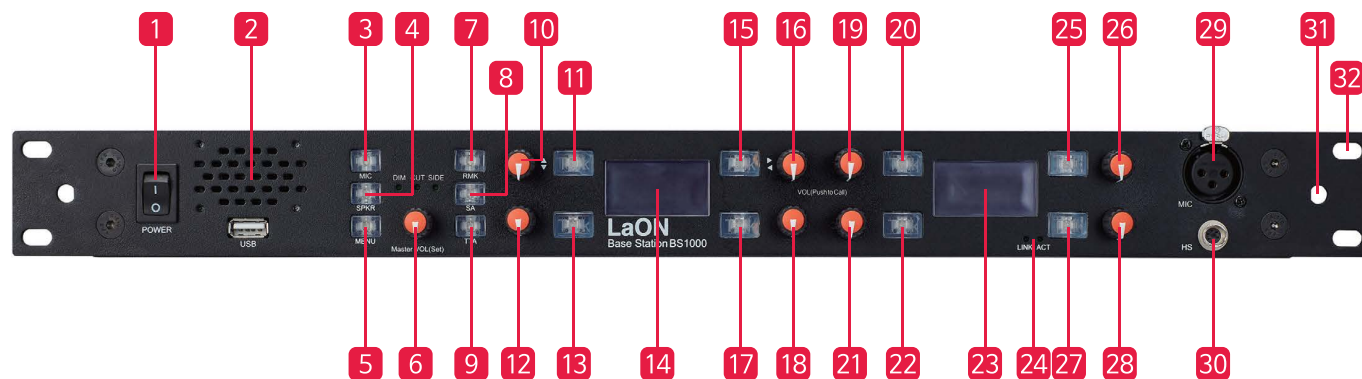


**Ethernet Beltpack | IBP10**

- 8 TALK channels with 4 keys

# BS1000 BASE STATION VIEW

## FRONT



- 01 Power switch
- 02 Loudspeaker
- 03 MIC on/off button (LED)
- 04 Loudspeaker on/off button (LED)
- 05 MENU button (LED)
- 06 Master Volume and select DIM, CUT, Sidetone
- 07 RMK button (LED)
- 08 SA button (LED)
- 09 TTA button (LED)
- 10 CH1 Volume, push to call
- 11 CH1 Talk button (LED)
- 12 CH3 Volume, push to call
- 13 CH3 Talk button (LED)
- 14 Display screen 1
- 15 CH2 Talk button (LED)
- 16 CH2 Volume, push to call
- 17 CH4 Talk button (LED)
- 18 CH4 Volume, push to call
- 19 CH5 Volume, push to call
- 20 CH5 Talk button (LED)
- 21 CH7 Volume, push to call
- 22 CH7 Talk button (LED)
- 23 Display screen 2
- 24 LEDs for LAN status
- 25 CH6 Talk button (LED)
- 26 CH6 Volume, push to call
- 27 CH8 Talk button (LED)
- 28 CH8 Volume, push to call
- 29 Gooseneck microphone connector
- 30 Headset connector
- 31 Antenna mounting hole
- 32 Ear for rack mounting

## REAR

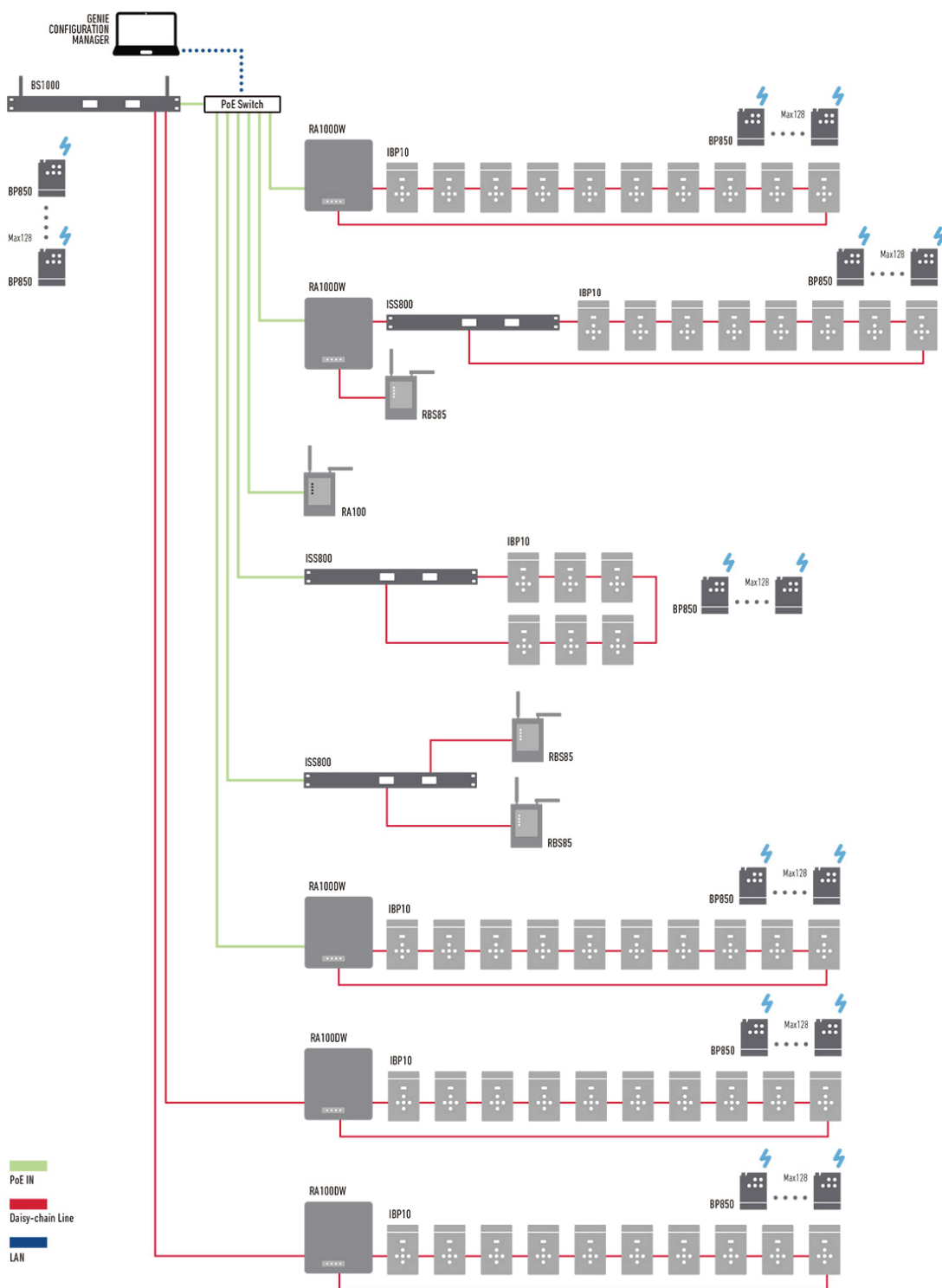
※ The actual image subject to change without a prior notice.



- 01 Antenna connector
- 02 2-Wire NULL control
- 03 2-Wire channel A connector
- 04 2-Wire channel A connector
- 05 2-Wire channel B connector
- 06 2-Wire NULL control
- 07 4-Wire channel A connector
- 08 4-Wire channel B connector
- 09 4-Wire channel C input connector
- 10 4-Wire channel C output connector
- 11 Auxiliary input connector
- 12 Auxiliary output connector
- 13 SA connector
- 14 Multi-Sync connector
- 15 Antenna connector
- 16 PC PROG connector
- 17 7 Relays and 2 OPTO, GPIO connector
- 18 Daisy-chain POE LINE 1 connector
- 19 Daisy-chain POE LINE 2 connector
- 20 POE input connector
- 21 Power input connector
- 22 Power input connector for duplex

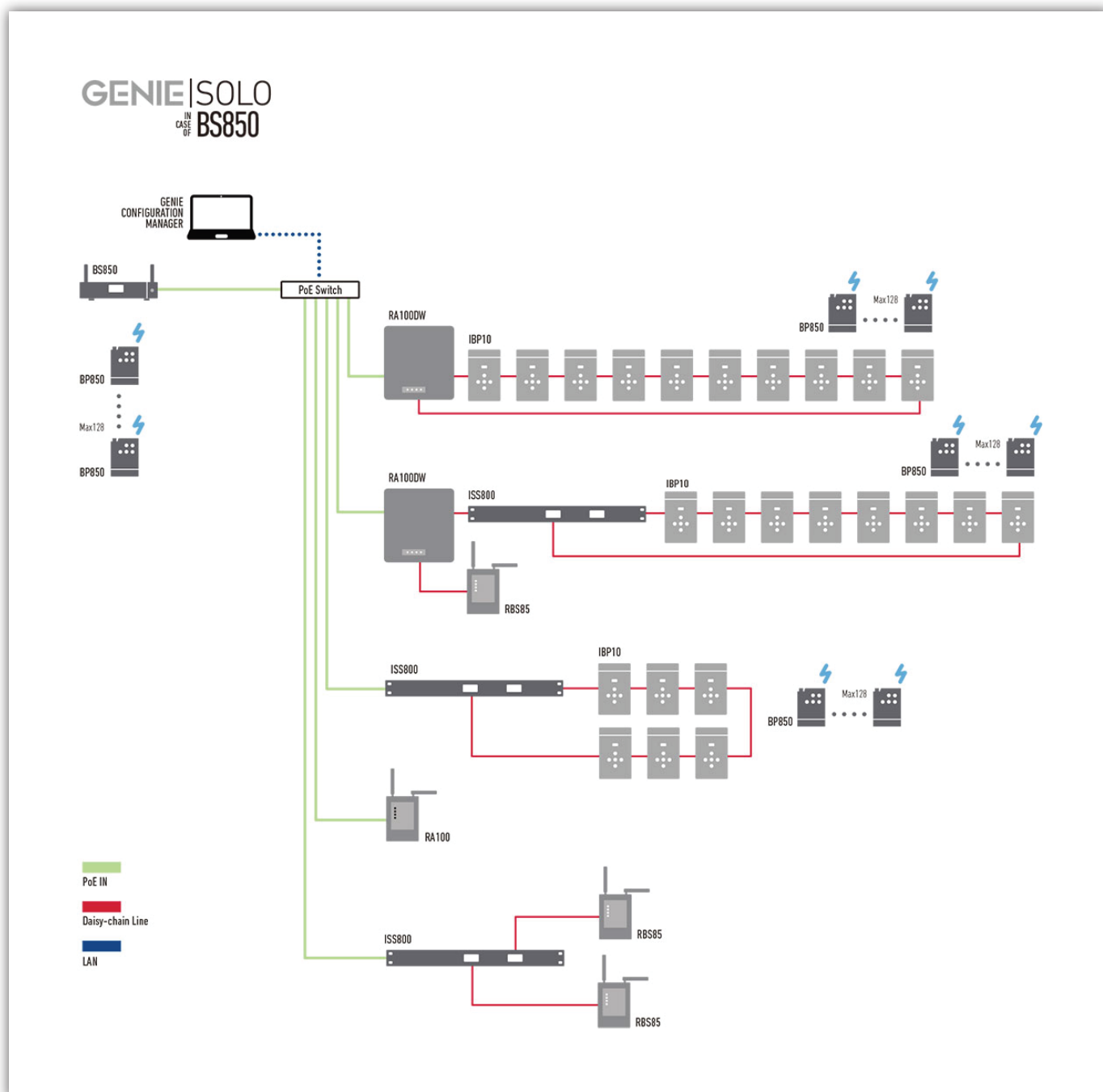
## GENIE ISOLO with BS1000

### GENIE ISOLO IN CASE OF BS1000



# GENIE SYSTEM USAGE

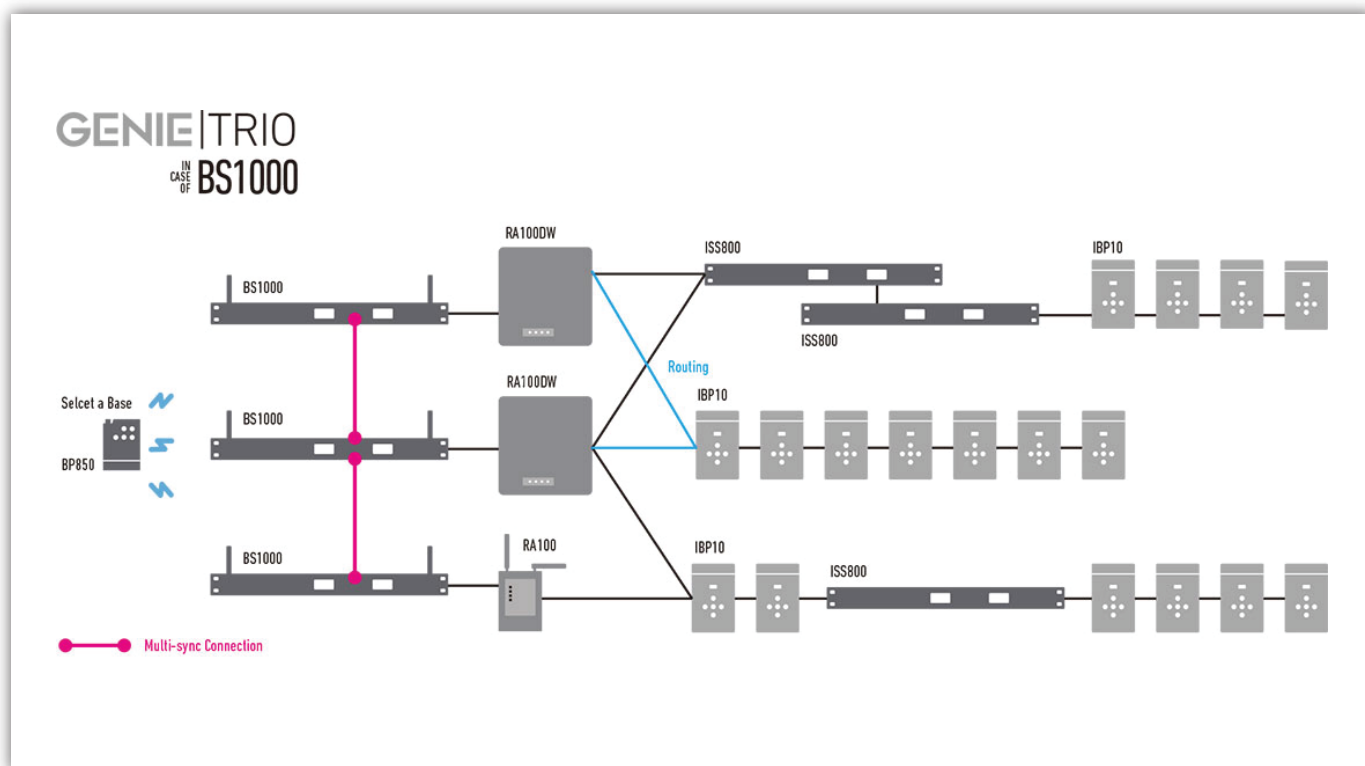
## GENIE ISOLO with BS850



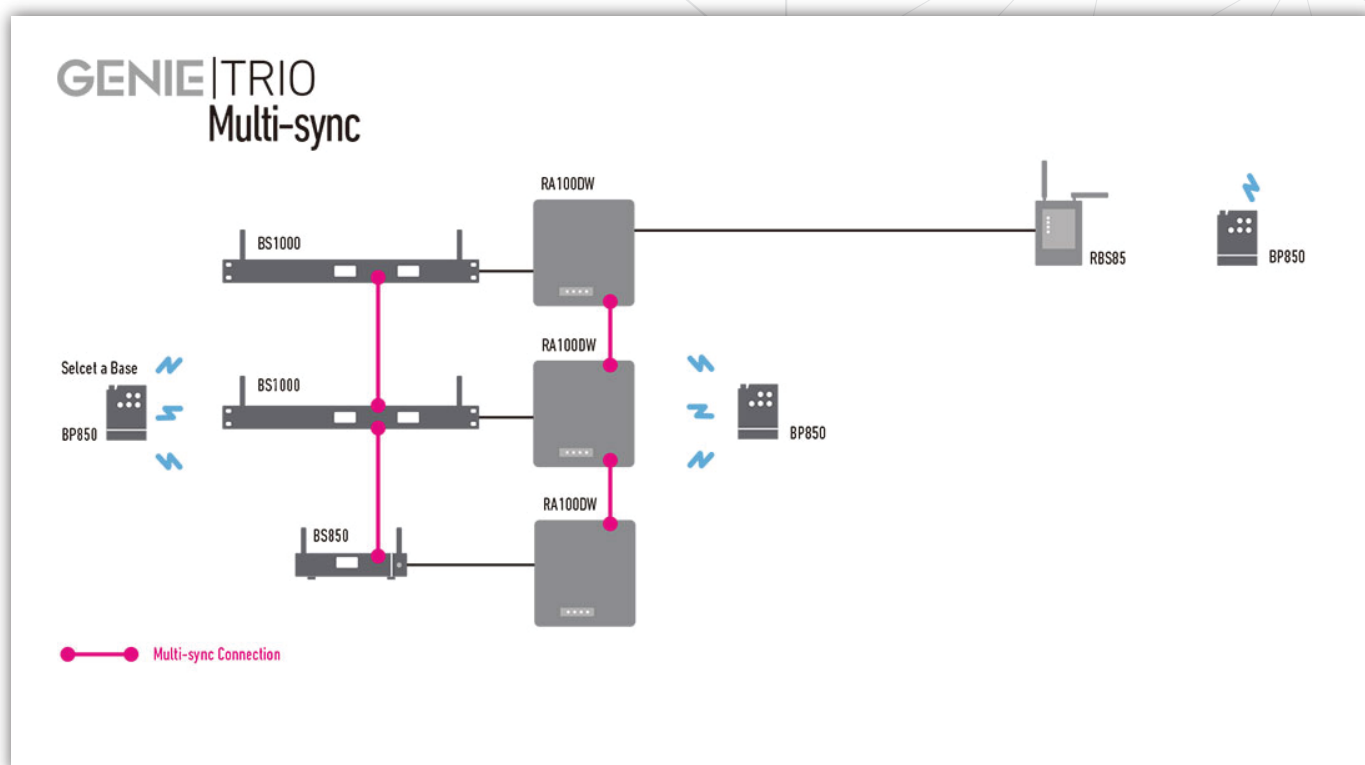
**GENIE** CONVERGED DIGITAL  
INTERCOM SYSTEM



## GENIE|TRIO with BS1000



## GENIE|TRIO Ethernet Synchronization



L	A	O	N
O	N		
C	A	N	S

[www.laon-tech.com](http://www.laon-tech.com)

# LaON 5GHz INTERCOM

Channel rich, Scalable, Stable and  
Seamless Wireless Intercom solution



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