PZent
Professional Presentation System

P-STalk

Two-way wireless transceiver

Full Duplex Radio Communication System

Information & Telecommunication

www.pzent.net

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Full Duplex Radio Communication System P-STalk

What is P-STalk?

P-STalk is portable two-way radio wireless transceiver using 2.4GHz, 900MHz frequency band.
Transmitter and receiver are not separated in P-STalk and setting for function of transmitter or receiver can be shifted depending on how you turn it on.
P-STalk provides reliable and high-quality audio transmission and reception services via a short-range wireless communication network with a three-stage security system.

- No tapping and interception is possible due to its high-end security solution.
- This compact and light-weighted handset allows an easy two-way communication with its hands-free function mounted.
- Up to 6 people can simultaneously talk
- With its broad bandwidth, no interference is made among telecommunication channels

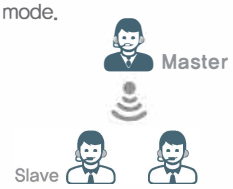
CE (Europe) · FCC (U.S.A) · TELEC (Japan) · KC (South Korea)
GS (South Korea) · Selected as Kyoungbuk's Pride · Selected as Digital-innovation Grand Prix · WEEE

P-STalk

Characteristics

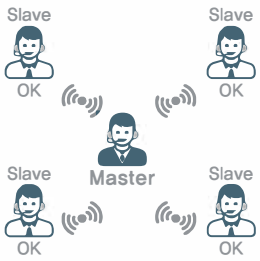
01 Works by 2 types of mode (Transmitter: Master / Receiver: Slave)

P-STalk terminal works either in master or in slave mode, according to its booting method.
There should exist at least one piece per group of P-STalk terminal, which is to be set up as master mode.



02 Two-way voice communication between P-STalk terminals.

Two-way voice communication between P-STalk terminals is allowed by means of using voice feature in slave mode.



03 A wide variety of communication channels supported

With its channel option, P-STalk enables the users to choose different channels at the same place concurrently.

04 Simultaneous calling up to 6 persons supported.

Max. 6 persons are allowed to participate in simultaneous calling as speaker, and unlimited for hearing.
It also accepts sequencial communication, thus making every hearer participate in the same mode.

SH-320

P-STalk

SH-320

Full Duplex Radio
Communication System

Characteristics of SH320

- Workable as 2 modes of one set (master and slave)
- Maximized user convenience due to its slim wearable size
- Max. 6 persons allowed in simultaneous calling / No limit for just hearing
- The status of communication channel and charging displayed by high-visibility LED
- Recognized working condition of the product by beep sound
- Shorter charge enough for a day' s business
- Both individual and concurrent charging available along with micro 5 pin USB and cradle
- User headset compatible (3.5 mm 4 pole)
- Portable back-up battery compatible (Max. 125 hours of running time depending on capacity)

Product specifications

Radio Frequency	2.403 up to 2.481 GHz
Service range	300m
Max. output	100 mW (20 dBm)
Operation time	8 to 10 hours
Charging time	3 hours
Battery type	Lithium polymer 3.7V 900mA
Weight	39g
Size	32 X 65 X 22 mm (W X H X D)
Channel number	4

- Deviations possible depending on method of use.

Industrial site

Conference

Simultaneous interpretation

P-STalk

Characteristics

CB-320A

Concurrent electric charger up to 30 units and storage case

Input Voltage	AC100-240V, 50/60Hz
Output Voltage	DC : 5V /6A
Size(mm)	455x330x120(mm)
Charging Capacity	Max 30EA

CB-320B

Storage case up to 30 units

30 units of SH320, chargers, adapters and earsets storable

CB-110

Storage case up to 10 units

10 units of SH320, chargers, adapters and earsets storable

C-320

Concurrent electric charger up to 10 units

Input Voltage	AC100-240V, 50/60Hz
Output Voltage	DC : 5V /6A
Size(mm)	210x90x60(mm)
Charging Capacity	Max 10EA

SP-20W

Portable speaker

MAX Power Output	20W Min(4Ω speaker load)
Size(W×H×D)	86×123×35mm
Weight	320g
Power Source	Li-Polymer 3.7V×2

P-STalk

Characteristics

SME(D)-320

Type : Attaching-to-Ear
Plug : 3.5mm(4pointers) "—" shape
Impedance : 32Ω

SME(D)-320B

Type : Attaching-to-Ear
Plug : 3.5mm(4pointers) "—" shape
Impedance : 32Ω

SMB-320

Type : Head-set
Plug : 3.5mm(4pointers) "¬" shape
Impedance : 32Ω

SSE-320

Type : In-Ear
Plug: 3.5mm(4pointers) "¬" shape
Impedance: 32Ω

NEW ES-10

Type : In-Ear & Hanging-on-Ear
Plug : 3.5mm(4pointers) "—" shape
Impedance : 32Ω

SMS-320

Type : In-Ear type
Plug : 3.5mm(4pointers) "¬" shape
Impedance : 32Ω

SSM-320

directional microphone
Size of unit : 10mm
Plug : 3.5mm(4pointers) "—" shape

SME(N)-320

Type : Attaching-to- Neck
Plug : 3.5mm(4pointers) "¬" shape
Impedance : 32Ω

WIRE SOLUTIONS APPLICATION NOTE
WIRE TRANSMISSION SYSTEM

P-STalk

AP-320

Wire transmission system

A wireless device in general has a limited communication-distance and its users often lose connections when communicate inside a building or in-between floors or in-between underground and ground level floors.

P-STalk overcomes these usual shortcomings with a relay installation that transmits wireless audio signals through a cable.

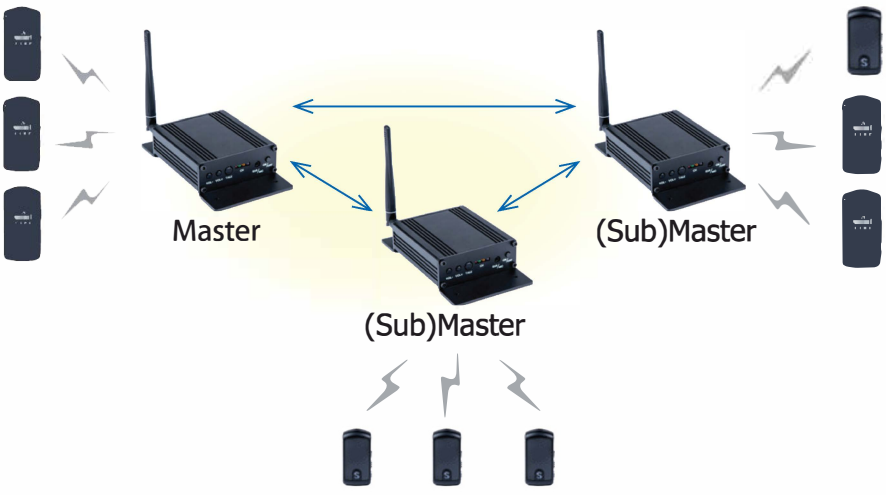
With this technology, P-STalk has a extended communication-distance and can be used in various purposes.

SH320 terminal is able to establish a wire communication environment and, thus, to expand a communication-distance.
In radio shadow areas inside a facility, that are prone to lose connections, a wire relay installationof P-STalk enables stable communications.

Product specifications

System	AC 220 V regular power source
Radio Frequency	2.403 up to 2.481 GHz
Wireless service range	400 m
Wire service range	1.4 Km
Max. output	100 mV (20 dBm)
Weight	190g
Size	90 x 70 x 30 mm (W x H x D)
Port number in repeater	2 ports

※ Deviations possible depending on method of use



P-STalk Wireless Bridge

UP-200/300

UP200/300 are the equipment for wireless data transmission, which allow us to freely move a variety of large files such as images, documents, pictures, and voice, etc.
Due to its simple configuration and low maintenance costs, it' s easy to build data network especially in geographically isolated area.
The equipment is able to transmit HD grade images on the real-time basis.

- This bridge has succeeded in realizing 300Mbps of high-speed transmission rate over the wireless span.
- It' s easy to install and carry as its antenna is embedded.
- This product has secured the certifications of safety as well as radio frequency adaptability.

Product specifications

Item	UP-200	UP-300
Communication specifications/ Frequency bandwidth used	IEEE 802.1 1 a/n 5.15 ~ 5.825 GHz	IEEE 802.1 1 a/n 5.15 ~ 5.825 GHz
Antenna/ RF output	5GHz 2 x 2 MIMO 16dBi Antenna Max 19+1 dBm	5GHz 2x2 MIMO 21dBi Antenna Max19+1 dBm
Modulation	IEEE 802.11 a/n : OFDM (BPSK, QPSK, 16QAM, 64QAM)	IEEE 802.11 a/n : OFDM (BPSK, QPSK, 16QAM, 64QAM)
Receiving sensitivity (802.11a)	-96dBm@6Mbps, -79dBm@54Mbps	-91dBm@6Mbps, -78dBm@54Mbps
Receiving sensitivity (802.11n)	-95dBm@MCS0(20Mhz), -92dBm@MCS0(40Mhz) -75dBm@MCS0(20Mhz), -74dBm@MCS0(40Mhz)	-95dBm@MCS0(20Mhz), -92dBm@MCS0(40Mhz) -75dBm@MCS0(20Mhz), -74dBm@MCS0(40Mhz)
Network	Point to Point (one to one) IEEE 802. 1Q (VLAN supported) DHCP	Point to Point (one to one) IEEE 802. 1Q (VLAN supported) DHCP
Management	Localization and remote control supported Telnet, SNMP, Web	Localization and remote control supported Telnet, SNMP, Web
Wireless security	WEP 64/128 bit encryption WPA/WPA2/802.1x	WEP 64/128 bit encryption WPA/WPA2/802.1x
Interface	Ethernet : 1 port-10/100Mbps PoE Auto sensing function High-brightness LED display (power/ Ethernet/ signal level)	Ethernet : 1 port-10/100Mbps PoE Auto sensing function High-brightness LED display (power/ Ethernet/ signal level)
Specification	Physical dimension: 216 x 216 x 82 mms (W x H x D) Weight: below 2.5 Kgs Protection against water and dust: IP 66	Physical dimension: 440 x 440 x 80 mms (W x H x D) Weight: below 6 Kgs Protection against water and dust: IP 66

Short range communication SH-320

※ Deviations possible depending on method of use

Application Example

[Used in remote communication among guardhouse or sentry post and headquarters]

When you need to build telecommunication network by using wire relay, whether military or private, between "more than 2 buildings" far away from each other

[Used in underground bunker and private facilities]

In such radio shadow region as underground joint area where no wireless telecommunication service works, the solution is wire relay system.

* Even in emergency, at least 8 hours of system operation is guaranteed with its back-up battery mounted.

Use Field

Command center

Firing range

Underground joint area

Service

Middle range communication AP-320

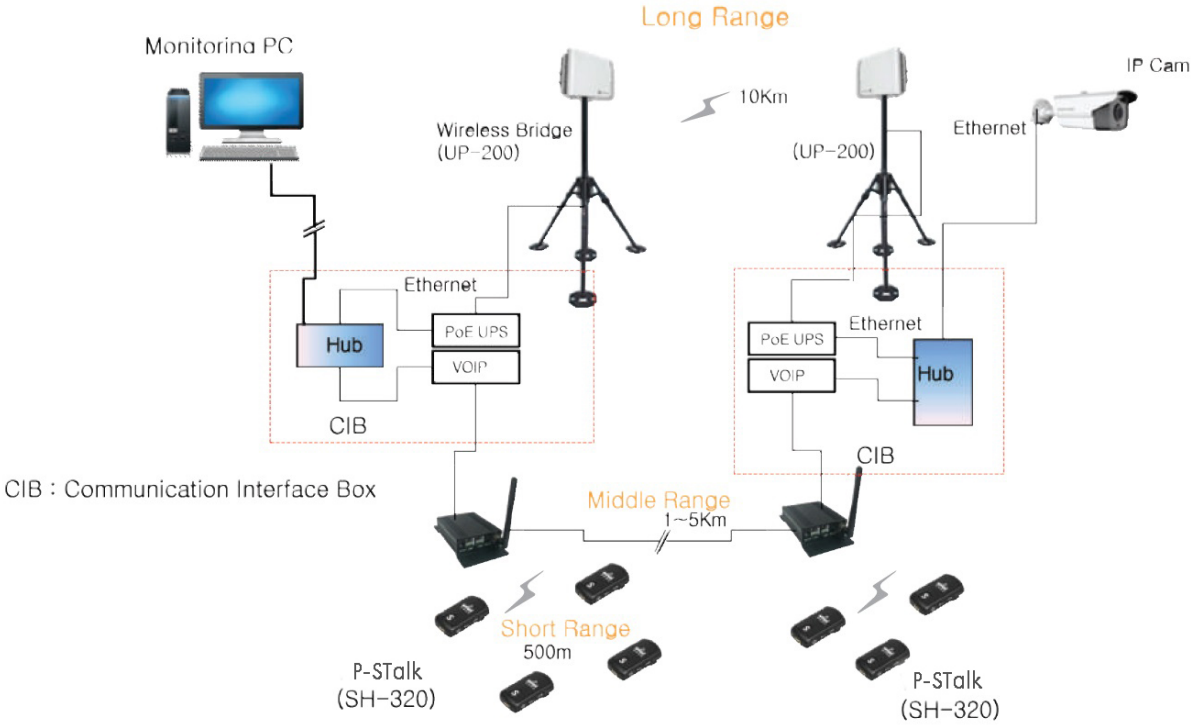
SH320 terminal contributes to build wire service relay network. eventually enlarging service coverage.

Wireless span
(Service coverage up to 400m)

UTP cable (LAN)
Wire span (Max. service coverage up
to 600 m per one set of wire transceiver)

Wireless span
(Service coverage up to 400m)

Long range communication UP-200



P-STalk

Full Duplex Radio Communication System

Tour guide

Factory tour

Sports

Military drill

Broadcast shooting

Simultaneous interpretation

Service upgrade

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