# ICOM

# IP503H

# LTE
# Transceiver

## LTE (4G) and 3G

▎**Push-to-Talk Instant Communications**

▎**Wide Area Coverage over LTE (4G) and 3G Network**

▎**Talk and Listen Simultaneously: Full-Duplex Conversation**

▎**High-Quality Audio through Powerful 900 mW Speaker**

# Instant Wide Area Coverage Over a LTE (4G) and 3G Network

The IP503H provides wide area communication using a LTE (4G) and 3G network and instantaneous communication.
Individual calls, Group calls or All calls can be made the same way as a conventional two-way radio.

**LTE (4G) and 3G Network**

Actual Size

IP ADVANCED RADIO SYSTEM
# IP503H
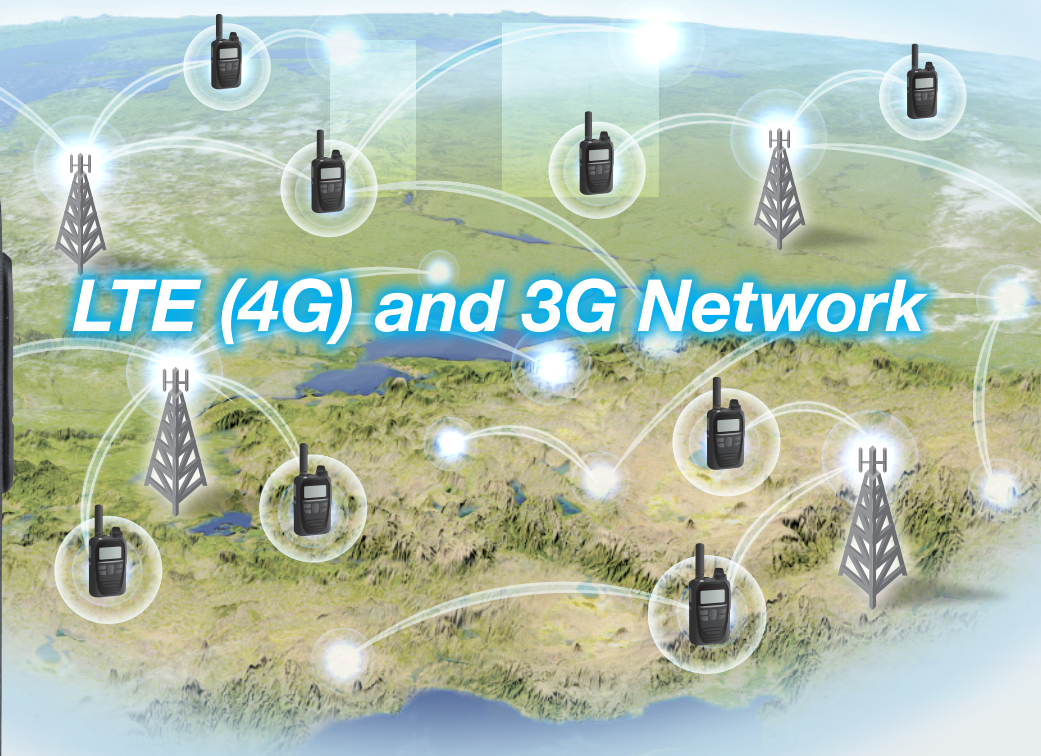
## Communication throughout the Coverage of LTE (4G) and 3G Network

Using an existing LTE (4G) and 3G network, the IP503H is able to provide a network with wide area coverage capabilities. The IP503H does not require its own repeaters or IP network which reduces the cost of building and maintaining a wide area radio network.

\* Service availability depends on the country. Network coverage provided by custom Icom SIM card.

**Railways**          **Security**          **Event Management**

## Full-Duplex Communication

The IP503H enables use of full-duplex communication which provides smooth telephone style conversations. The IP503H users can talk and receive at the same time.

## Multiple User Communication

Multiple users in the call groups can initiate calls instantaneously. Removing the need to wait for available channels to communicate.

## Priority Interrupt Calling

The IP503H supports group calls with three or more people. In case of an emergency, you can break into an on-going call to transmit an important message.

Full-duplex communication

Break-into call

!!
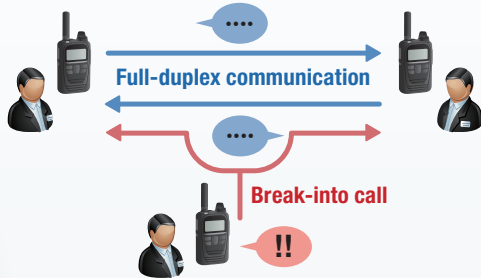
## Industry Leading Compact and Lightweight Body

Compact 59 × 95 × 32 mm; 2.3 × 3.7 × 1.3 in and 240 g; 8.5 oz (approximate) lightweight body* allows non-intrusive mobility and use.
* With BP-272 battery pack and antenna. Projections are not included.

## IP67 Dust-Tight and Waterproof

The IP503H has been designed to preserve its waterproof integrity in water of a depth of 1 meter for 30 minutes. It can be used for outdoor work or places prone to get wet.

## Optional Charger Cradle with Bluetooth® Function

When the optional BC-218, charger cradle and HM-215, speaker-microphone is used, calls can be made with the microphone, while charging the IP503H. Even when the IP503H is not dropped into the BC-218, the Bluetooth® function enables you to wirelessly use the speaker-microphone.

* May not be available in some countries. Please confirm the regulations in your country before you use.

## Powerful and Clear Audio

The powerful 900mW speaker provides high-quality and clear audio, even in noisy environments.
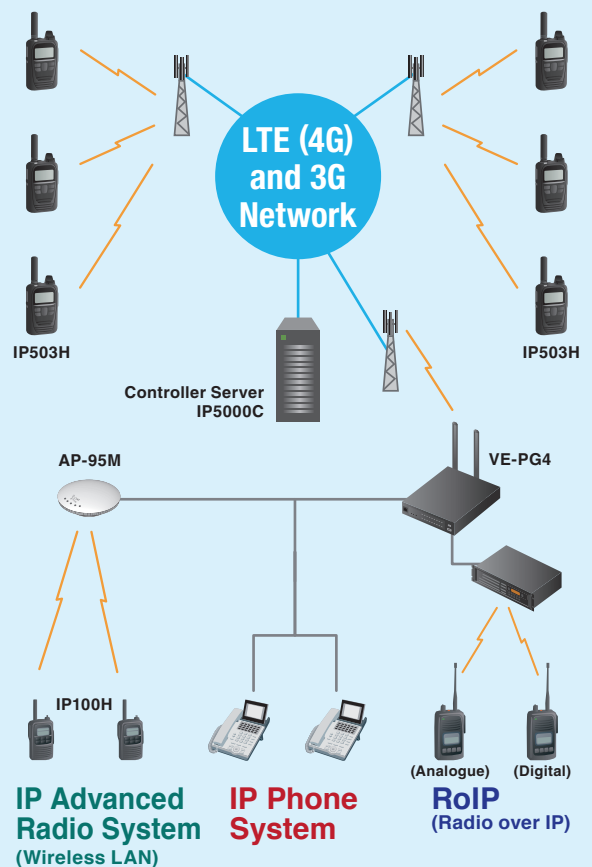
## Other Features

- Individual, Group, Talkgroup, Multiplex Talkgroup and All calls
- Emergency button, Lone Worker and Man Down functions
- Vibration alert function notifies of incoming call
- Up to 500 memory address book
  (including Group, Individual, Talkgroup and Telephone lists)
- Voice message recording
- Built-in Bluetooth® and GPS

### RoIP Gateway VE-PG4

With a VE-PG4, the IP503H system can provide interoperability with an IP phone, analogue transceiver, IDAS™ digital transceiver and IP100H wireless LAN network systems.

LTE (4G) and 3G Network

IP503H

IP503H

Controller Server IP5000C

AP-95M

VE-PG4

IP100H

(Analogue)    (Digital)

IP Advanced Radio System
(Wireless LAN)

IP Phone System

RoIP
(Radio over IP)

Road Maintenance

Hospitality

Transportation

## OPTIONAL ACCESSORIES

### BATTERY PACKS

**BP-271**
Rechargeable Li-ion
1150/1200 mAh
(min./typ.)
IP67 waterproof

**BP-272**
Rechargeable Li-ion
1880/2000 mAh
(min./typ.)
IP67 waterproof

### MULTI-CONNECTABLE RAPID CHARGER

Connectable up to 6 units

**BC-202IP3L**

**BC-123S**\*1
AC adapter for single unit

**BC-228** AC adapter is required for multiple connections.

### MULTI-CHARGER

**BC-211**\*2

**BC-157S**
AC adapter

*1 The straight plug type is required.

*2 AC adapter may be supplied as standard, depending on the version.

### CHARGER CRADLE

**BC-218**
Charger cradle with Bluetooth® function

**BC-207S**
AC adapter

**HM-215**
Speaker-microphone for BC-218

**MBA-7**
Bracket adapter for BC-218

**MBF-1**
Mounting base

### SPEAKER-MICROPHONES

**HM-183LS**
IPX7 waterproof

**HM-186LS**

### EARPHONE-MICROPHONES

**HM-153LS**

**HM-166LS**

### HEADSETS

**HS-102**\*3
Earphone type

**HS-94**\*4
Earhook type

**HS-95**\*4
Behind-the-head type

**HS-97**\*4
Throat-microphone type

**VS-3**
Bluetooth® headset

### CARRYING CASES

**LC-183**\*5
For use with BP-271

**LC-185**\*5
For use with BP-272

- **BC-202IP2:** Single rapid charger AC adapter may be supplied as standard, depending on the version.
- **CP-22:** Cigarette lighter cable with DC-DC converter (12-24 V DC)
- **CP-23L:** Cigarette lighter cable for 12 V DC
- **MB-135:** Belt clip. Same as supplied.
- **OPC-2006LS:** Plug adapter cable for VOX operation.
- **OPC-2328:** PTT switch cable
- **OPC-2359:** PTT switch cable

*3 OPC-2359 is required when using HS-102.
*4 Either OPC-2006LS or OPC-2328 is required when using any of these headsets. (Simplex mode operation only.)

*5 Charging is possible while the case is attached.

## SPECIFICATIONS

| Network | 4G bands: | LTE B1, B3, B7, B8, B20 (EXP) LTE B1, B3, B5, B7, B8, B28 (AUS) |
| --- | --- | --- |
| | 3G bands: | W-CDMA B1, B8 (EXP) W-CDMA B1, B5 (AUS) |
| Dimensions (W × H × D; Projections not included) | | 59 × 95 × 32 mm; 2.3 × 3.7 × 1.3 in (with BP-272) |
| Weight (approx.) | | 240 g; 8.5 oz (with BP-272 and antenna) |
| Voice Codec | | G.726 (32 kbps) |
| AF output power (8 Ω at 10% distortion) | Internal SP | More than 900 mW |
| | External SP | More than 200 mW |
| Operating time (TX : RX : standby = 5 : 5 : 90) | | 17 hours (with BP-272) |
| Bluetooth | | Ver 2.1 +EDR |
| GPS | | Built-in |
| Operating temperature | | −10 °C to +60 °C; +14 °F to +140 °F |
| IP rating | | IP67 (dust-tight and immersion) IP55/54 (dust and water jet / water resistance) |

* Operating time may differ depending on operating environments.
All stated specifications are subject to change without notice or obligation.

### Applicable U.S. Military Specifications

| MIL 810G Standard | Method | Procedure |
| --- | --- | --- |
| Low Pressure | 500.5 | I, II |
| High Temperature | 501.5 | I, II |
| Low Temperature | 502.5 | I, II |
| Temperature Shock | 503.5 | I-C |
| Solar Radiation | 505.5 | I |
| Rain Blowing/Drip | 506.5 | I, III |
| Dust Blowing | 510.5 | I |
| Immersion | 512.5 | I |
| Vibration | 514.6 | I |
| Shock | 516.6 | I, IV |

Also meets equivalent MIL-STD-810-C, -D, -E and -F.

### Supplied accessories
- BP-272 Li-ion battery pack
- MB-135 belt clip
- Hand strap
- Antenna

### SPEAKERPHONE UNIT

## VE−SP1

### JUST PUT THE IP503H IN THE SLOT AND START A VOICE CONFERENCE

- Portable operation with LR6 (AA)×8 cells
- Built-in loudspeaker and high sensitivity microphone
- Charges the radio while using with the AC adapter

* The transceiver is not supplied.