

 ICOM

IP503H

IP ADVANCED RADIO SYSTEM

# 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**

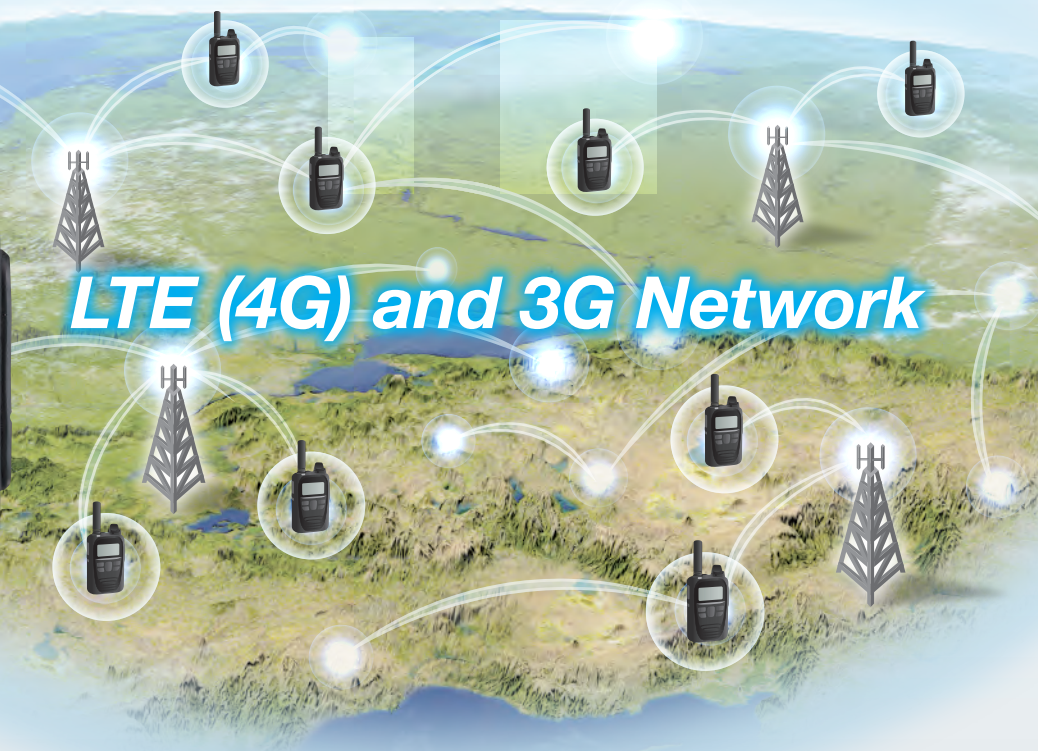
# Instant Wide Area Coverage Over a LTE (4G) and 3G Network

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.



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

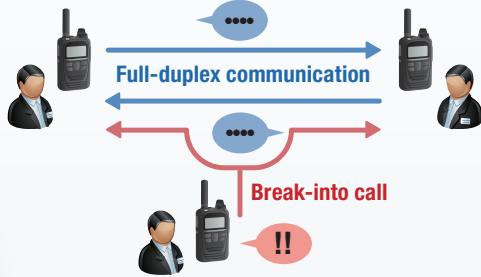
The IP503H enables use of full-duplex communication which provides smooth telephone style conversations. The IP503H users can talk and receive at the same time.

## 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.



## 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.

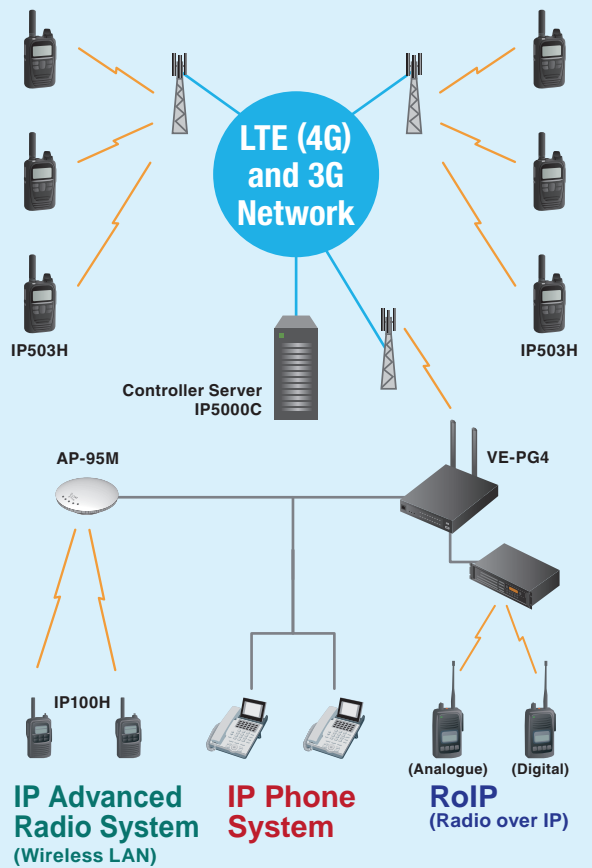


## Other Features

- 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.



Road Maintenance

Hospitality

Transportation



OPTIONS

**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


**RAPID CHARGER**




**BC-202IP2\*1**  
The radio can be used  
while charging

**BC-123S\*2**  
AC adapter

**MULTI-CHARGER**



**BC-211\*1**



**BC-157S**  
AC adapter

**CIGARETTE LIGHTER CABLES**  
(for use with BC-218)



**CP-22**  
With DC-DC converter  
(12-24 V DC)

**CP-23L**  
For 12 V DC

\*1 AC adapter may be supplied as standard, depending on the version.  
\*2 BC-123SA for USA plug, SE for Europe plug, SV for Australia plug.

**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

- **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 IP transceiver is not supplied.

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