

ICOM

Apex
Radio Systems Ltd.

IP503H

IP ADVANCED RADIO SYSTEM

LTE Transceiver

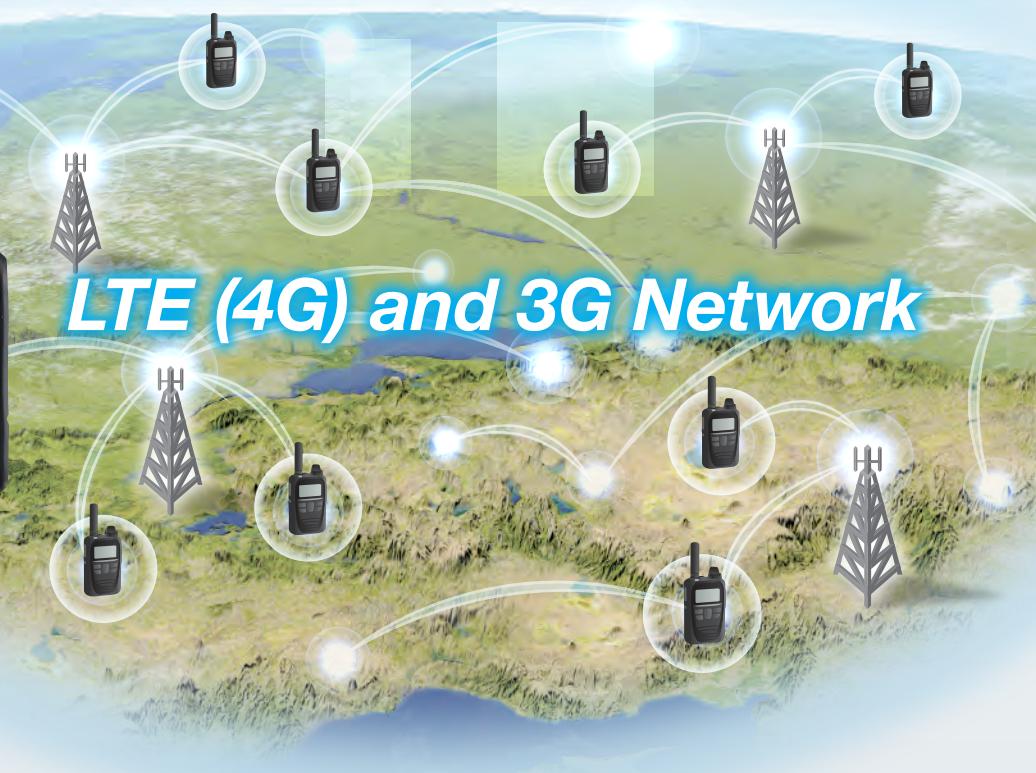
LTE (4G) and 3G



- | 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.



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.

IP ADVANCED RADIO SYSTEM
IP503H



Railways

Security

Event Management

Full-Duplex Communication

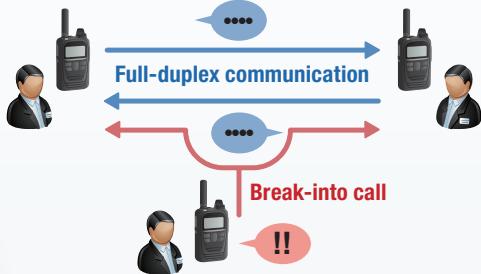
The IP503H enables use of full-duplex communication which provides smooth telephone style conversations. The IP503H users can talk and receive at the same time.

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 x 95 x 32 mm; 2.3 x 3.7 x 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.

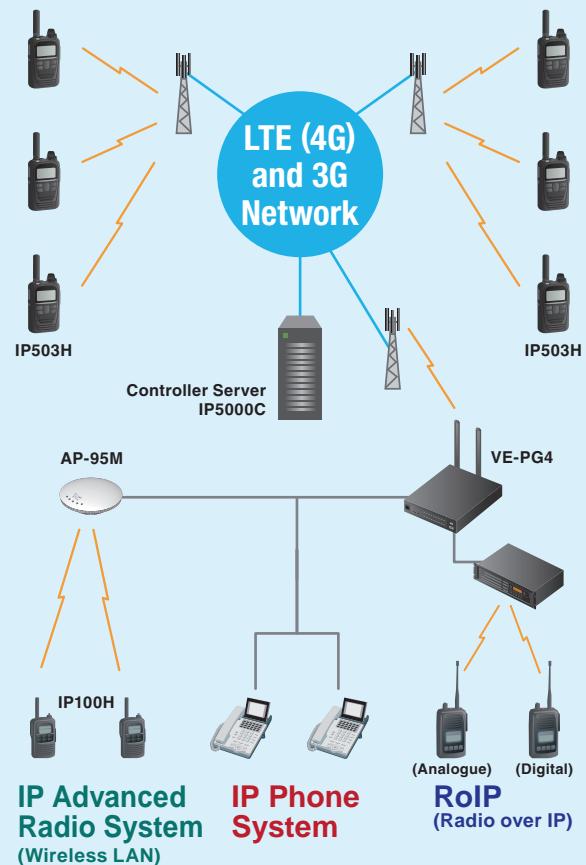


Other Features

- 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 x H x D; Projections not included)		59 x 95 x 32 mm; 2.3 x 3.7 x 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 External SP	More than 900 mW 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
- Hand strap
- MB-135 belt clip
- Antenna

SPEAKERPHONE UNIT



VE-SP1

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

- Portable operation with LR6 (AA)x8 cells
- Built-in loudspeaker and high sensitivity microphone
- Charges the radio while using with the AC adapter

* The IP transceiver is not supplied.

Please ask your Icom distributor in your country about the planned launch date of the service or other requirements. This product requires the system construction working in collaboration with a mobile network operator. Icom, Icom Inc. and the Icom logo are registered trademarks of Icom Incorporated (Japan) in Japan, the United States, the United Kingdom, Germany, France, Spain, Russia, Australia, New Zealand, and/or other countries. IDAS is a trademark of Icom Incorporated. The Bluetooth® word mark and logos are registered trademark owned by Bluetooth SIG, Inc. and any use of such marks by Icom Inc. is under license. All other trademarks are the properties of their respective holders.

Icom Inc.

1-132, Kamiminami, Hirano-Ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013

www.icom.co.jp/world

Count on us!

Icom America Inc.
www.icomamerica.com

Icom Canada
www.icomcanada.com

Icom Brazil
E-mail: sales@icombrazil.com

Icom (Europe) GmbH
www.icomeurope.com

Icom Spain S.L.
www.icomspain.com

Icom (UK) Ltd.
www.icomuk.co.uk

Icom France s.a.s.
www.icom-france.com

Icom (Australia) Pty. Ltd.
www.icom.net.au

Shanghai Icom Ltd.
www.bjicom.com

Your local distributor/dealer:

0191 228 0466

info@apexradio.com

www.apexradio.co.uk

11 Keel Row, The Watermark,
Gateshead, NE11 9SZ