LTE Radios

LTE (4G) and 3G

IP ADVANCED RADIO SYSTEM
Instant Wide Area Coverage Over an LTE (4G) and 3G Network

LTE radio provides instantaneous, wide area communication using an LTE (4G) and 3G network*. LTE radio doesn’t require its own repeaters or IP network, therefore reducing the cost of building, and maintaining a wide area radio network.

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

One-to-Many Communication
Unlike cell phones, the IP501H/IP501M users can immediately start talking to all the radios in the same talkgroup, with just a push of the transmit (PTT) button.

Full-Duplex Communication
Our LTE Radios use full-duplex conversation, which allows users to talk and receive at the same time. This allows smooth, telephone like conversations.

Priority Interrupt Calling
The LTE radio 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.

Multiple User Communication
Multiple users in the call groups can initiate calls instantaneously. Removing the need to wait for available channels to communicate.
**Compact and Durable LTE Handheld**

- High quality audio with wideband, near lossless G.726 vocoder
- IP67 waterproof and dust-tight (1 m depth water for 30 minutes)
- Emergency Call, Lone Worker and Man Down functions
- Voice Record/Playback functions
- Vibration Alert function notifies of incoming calls
- Built-in Bluetooth® and GPS

**LTE RADIO**

**IP501H**

- Optional BC-218 charger cradle and HM-215 speaker-microphone, the Bluetooth® function enables you to wirelessly use the speaker microphone connected to the charger
- Text message reception and preprogrammed message transmission
- Up to 500 memory address book (including Group, Individual, Talk Group and telephone)
- Full duplex communication without a headset
- Full dot-matrix display

**Supplied accessories**

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

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**LTE Mobile Radio**

**Mobile LTE Radio Interoperable with the IP501H**

- Built-in Bluetooth® and GPS
- An Ethernet port for data communication*
  - The optional VE-PG4 is required.
- Text message reception and preprogrammed message transmission
- Emergency call and Lone Worker functions
- Noise Canceling function (TX only)

**And More**

- Solid structure meets IP54 and MIL-STD-810G standards
- D-SUB 25-PIN connector with optional OPC-2407 cable for interfacing other devices, various controls and data communication
- Up to 500 memory address book (including Group, Individual, Talk Group and telephone)
- Full duplex communication without a headset
- Full dot-matrix display
- Both 12 and 24 volt compatible

**Supplied accessories**

- HM-241 speaker-microphone
- LTE antenna (2 pcs)
- GPS antenna
- DC power cable
- Mounting bracket kit
- Microphone hanger
Just Put the IP501H in the Slot and Start a Voice Conference

SPEAKERPHONE UNIT
VE-SP1
- Portable operation with LR6 (AA) × 6 cells
- Built-in loudspeaker and high sensitivity microphone
- Charges the radio when using the AC adapter

Supplied accessories
• OPC-2397 connection cable • BC-242 AC adapter • SM-1 external microphone

OPTIONS (For Handheld Radio)

MULTI-CHARGER
BC-211
BC-157S
CHARGER CRADLE
BC-218
+MBA-7+MBF-1
With Bluetooth® function
HM-216
Speaker-microphone
SPEAKER-MICROPHONES
HM-183LS
IPX7 waterproof
HM-186LS
Bluetooth® earphone type headset
HEADSET
HS-102
Bluetooth® HEADSET
LC-185
For use with BP-272
LC-183
For use with BP-271
CARRYING CASES
BC-202IP2
The radio can be used while charging
RAPID CHARGER
BC-202IP2
The radio can be used while charging
AC ADAPTERS
BC-207S
For use with the BC-218
BC-212S
For use with the BC-202IP2
CIGARETTE LIGHTER CABLES (for use with BC-218)
CP-22
With DC-DC converter, 12-24 V DC
CP-23L
12 V DC
PTT SWITCHCABLE
OPC-2359
Required when using the HS-102
PROGRAMMING SOFTWARE and CABLE
CS-IP501H
Programming software
OPC-478UC
Programming cable

A Handheld-Like User Interface with Optional COMMANDMIC™ HM-230HB

COMMANDMIC™
HM-230HB
- Saves space and fully controls the IP501M
- Direct message and calling ID input
- Four function assignable buttons (Emergency/P1/P2/P3)

OPTIONS (For Mobile Radio)

COMMANDMIC™
HM-230HB
IP55
SPEAKER-MICROPHONE
HM-241
IP54
(same as supplied)
DESKTOP MICROPHONE
SM-2B
Bluetooth® HEADSET
VS-3
EXTERNAL SPEAKERS
SP-30
20 W, 4 Ω (2.6 m, 8.5 ft)
SP-35
5 W, 4 Ω (2 m, 6.6 ft)
ACC CABLE
OPC-2407
With D-SUB 25-pin extension cable
EXTENSION CABLE
OPC-2355
For a microphone (2.5 m, 8.2 ft)
USB PROGRAMMING CABLE
OPC-1122U
RoIP GATEWAY
VE-PG4
• PROGRAMMING SOFTWARE
CS-IP501M
Programming software
Radio Gateway — Link LTE Radios to Land Mobile Radios, WLAN Radios, IP Phone Systems and More

The VE-PG4 is a versatile RoIP (Radio over IP network) gateway unit, which seamlessly interconnects LTE radios, land mobile radios, WLAN radios, IP phone systems and external devices. The built-in LTE module* provides virtually nationwide communication coverage.

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

Communication Links
**SPECIFICATIONS**

<table>
<thead>
<tr>
<th></th>
<th>IPS01H (Handheld radio)</th>
<th>IPS01M (Mobile radio)</th>
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<tbody>
<tr>
<td><strong>Network</strong></td>
<td></td>
<td></td>
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<tr>
<td>EXP</td>
<td>LTE (4G) bands: B1, B3, B7, B8, B20 W-CDMA (3G) bands: B1, B8</td>
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<tr>
<td>AUS</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td><strong>Dimensions</strong> (W × H × D; projections not included)</td>
<td>58 × 95 × 32 mm; 2.3 × 3.7 × 1.3 in (Approximate)</td>
<td>125 × 29 × 156 mm; 4.9 × 1.1 × 6.1 in (Approximate)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>240 g; 8.5 oz (with BP-272 and antenna)</td>
<td>840 g; 1.9 lb (Main unit)</td>
</tr>
<tr>
<td><strong>Voice Codec</strong></td>
<td>G.726 (32 kbps)</td>
<td>G.726 (32 kbps)</td>
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<tr>
<td><strong>AF output power</strong> Internal SP</td>
<td>400 mW (16 k at 10% distortion)</td>
<td>More than 4 W (0.0 at 10% distortion)</td>
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<tr>
<td></td>
<td>External SP</td>
<td></td>
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<tr>
<td></td>
<td>200 mW (8 k at 10% distortion)</td>
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<tr>
<td><strong>Operating time</strong></td>
<td>17 hours (with BP-272) (TX: RX: Standby= 5: 5: 90)</td>
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**CASE STUDIES**

**Japan Airlines**
Simultaneous communication system leads to quick and high quality service at low cost.

**Osaka Metro**
Osaka Metro has introduced the Icom LTE radios in all 133 stations.

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