



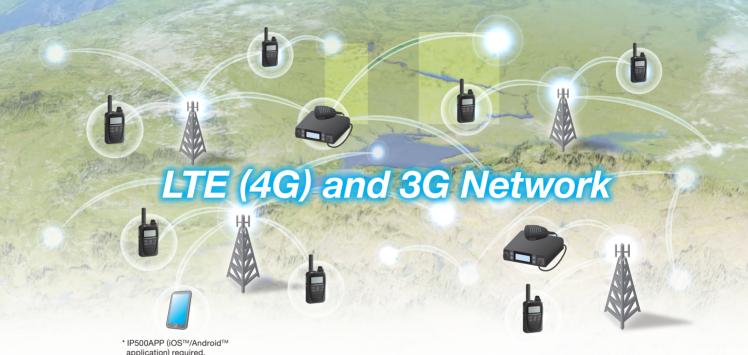


IP ADVANCED RADIO SYSTEM

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.



application, required.

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



IP501H

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

communication • Full dot-matrix display

And More

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, Talkgroup and telephone*)
Full duplex

* VE-PG4 required.

Supplied accessories

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

LTE Mobile Radio

Mobile LTE Radio Interoperable with the IP501H



LTE RADIO

IP501M

Built-in Bluetooth® and GPS

An Ethernet port for data communication*

* The optional VE-PG4 is required.

Supplied GPS antenna

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, Talkgroup and telephone*) Full duplex communication
- Full dot-matrix display Both 12 and 24 volt compatible
- * VE-PG4 required.

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 VF-SP1

Portable operation with LR6 (AA) × 8 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)



BC-157S

the BC-211

Supplied with

BC-218 +MBA-7+MBF-1 With Bluetooth® function

CHARGER CRADLE

CP-22 With DC-DC converter, 12-24 V DC **CP-23L** 12 V DC



SPEAKER-MICROPHONES HM-183LS HM-186LS

BP-271 Li-ion 1150/1200 mAh (min./typ.), IP67

BATTERY PACKS

BP-272 1880/2000 mAh (min./typ.), IP67

EARPHONE-MICROPHONES



 AC ADAPTERS BC-123S Supplied with the BC-202IP2 BC-207S Supplied with the BC-218

HEADSET HS-102 Earphone type headset • CIGARETTE LIGHTER CABLES (for use with BC-218)

HEADSET

Bluetooth⁶

CARRYING CASES LC-185 For use with BP-272 LC-183 For use with BP-271 • PTT SWITCH CABLE



OPC-2359 Required when using the HS-102

RAPID CHARGER

SHOULDER STRAP MB-57L For use with LC-183/LC-185

 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)











EXTENSION CABLE OPC-2355 For a microphone (2.5 m, 8.2 ft)



• PROGRAMMING SOFTWARE CS-IP501M Programming software

iOS™/Android™ Application to Communicate with LTE Radios





iOS™/Android™ APPLICATION

IP500APP

Use your smartphone^{*1} to talk and listen to the LTE radios. The IP500APP application^{*2} lets you join the radio fleet as if you are using the real radio.

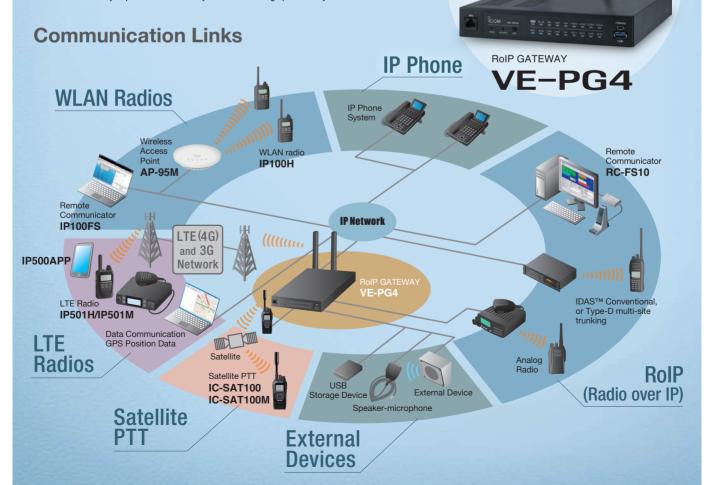
Main features

- Full-Duplex communication Short text message
- Voice Recording/Playback function Address book
- TX/RX history
- *1 IP500APP for iOS™: iOS™ version 12 or later IP500APP for Android™: Android™ version 8.0 or later
- *2 As of January 2020, IP500APP service is not yet available for general subscription outside Japan. Please visit our website for the latest information.

Radio Gateway — Link LTE Radios to Private 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, satellite PTT radios 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.



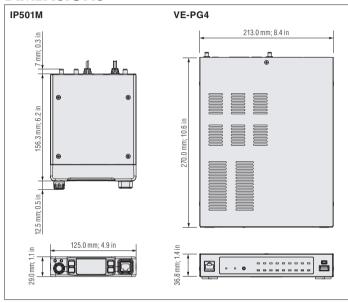
SPECIFICATIONS

| | | IP501H (Handheld radio) | IP501M (Mobile radio) | |
|--|-------------|--|--|--|
| Network | USA | LTE (4G) bands: B2, B4, B5, B17 W-CDMA (3G) bands: B2, B5 | LTE (4G) bands: B2, B4, B12 W-CDMA (3G) bands: B2, B5 | |
| | EXP | LTE (4G) bands: B1, B3, B7, B8, B20 W-CDMA (3G) bands: B1, B8 | LTE (4G) bands: B1, B3, B7, B8, B20 W-CDMA (3G) bands: B1, B8 | |
| | AUS | _ | LTE (4G) bands: B1, B3, B5, B7, B8, B28 W-CDMA (3G) bands: B1, B5 | |
| Dimensions (W x H x D; projections not included) | | $59 \times 95 \times 32$ mm; $2.3 \times 3.7 \times 1.3$ in (Approximate, with BP-272) | 125 × 29 × 156 mm; 4.9 × 1.4 × 6.1 in (Approximate) | |
| Weight (approximate) | | 240 g; 8.5 oz (with BP-272 and antenna) | 840 g, 1.9 lb (Main unit) | |
| Voice Codec | | G.726 (32 kbps) | G.726 (32 kbps) | |
| AF output power | Internal SP | More than 400 mW (16 Ω at 10% distortion) | - | |
| | External SP | More than 200 mW (8 Ω at 10% distortion) | More than 4 W (4 Ω at 10% distortion) | |
| Operating time (5:5:90 duty cycle.) | | 17 hours (with BP-272) | - | |
| Bluetooth® | | Ver 2.1 +EDR | Ver 2.1 +EDR | |
| GPS | | Built-in | Built-in (External GPS antenna supplied) | |
| LAN | | - | RJ-45 type × 1 (AUTO MDI/MDI-X) 100BASE-TX/10BASE-T | |

| | | VE-PG4 | | |
|-----------------|---|---|--|--|
| | USA | LTE (4G) bands: B2, B4, B12 W-CDMA (3G) bands: B2, B5 | | |
| Network | EXP | LTE (4G) bands: B1, B3, B7, B8, B20 W-CDMA (3G) bands: B1, B8 | | |
| | AUS | LTE (4G) bands: B1, B3, B5, B7, B8, B28 W-CDMA (3G) bands: B1, B5 | | |
| Power supply | , | 12 V DC ±10%, 4 A maximum 100-240 V AC (with the supplied AC adapter) | | |
| Dimensions (W x | $H \times D; \ projections \ not \ included)$ | $213 \times 36.8 \times 270$ mm, $8.4 \times 1.4 \times 10.6$ in (Approximate) | | |
| Weight | | 1.8 kg, 4 lb (Main unit, approximate) | | |
| WAN/LAN | | RJ-45 type x 1 (Auto MDI/MDI-X) 10BASE-T/100BASE-TX/1000BASE-T *WAN/LAN port selectable. | | |
| LAN | | RJ-45 type x 1 (Auto MDI/MDI-X) 10BASE-T/100BASE-TX/1000BASE-T | | |
| USB | Host interface | USB 3.0 Standard A receptacles × 3 | | |
| 036 | Console interface | USB 2.0 mini B receptacles × 1 | | |
| Internet proto | col | IPv4 | | |
| Call Control F | Protocol | SIP | | |
| Codec | | G.711 µ-law, AMBE+2™ | | |
| | LTE Radio | IP501H, IP503H, IP501M | | |
| | WLAN Radio | IP100H | | |
| 0 | Satellite PTT | IC-SAT100, IC-SAT100M | | |
| Compatible | VHF/UHF Repeaters | IC-FR5000, IC-FR5100, IC-FR6000, IC-FR6100, IC-FR5300/FR6300 series | | |
| 11100013 | VHF/UHF Radios | IC-F5061D, IC-F5062D, IC-F5063D, IC-F6061D, IC-F6062D, IC-F6063D | | |
| | VHF Marine Radios | IC-M605, IC-M605EURO | | |
| | VHF Air Band Radios | IC-A120, IC-A120E | | |

DIMENSIONS

REAR PANEL VIEW



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.

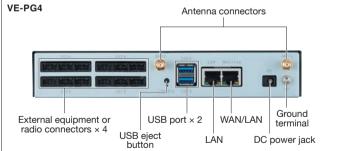








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