

LTE Radios



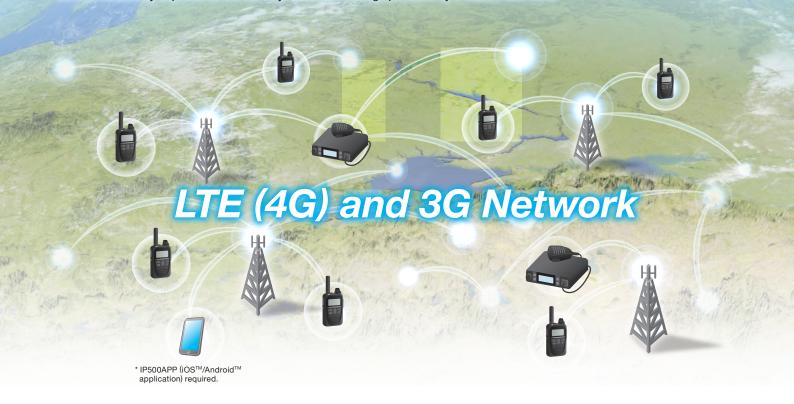
IP ADVANCED RADIO SYSTEM



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 mobile phones, the IP503H/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 radios provide group calling 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 in a instant, removing the need to wait for available channels to communicate.



Compact and Durable LTE Handheld



900 mW powerful, 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

And More

- Optional BC-218 charger cradle and HM-215 speakermicrophone, 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 Full dot-matrix display

* VE-PG4 required.

Supplied accessories

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

LTE Mobile Radio

Slim and Feature Packed LTE Mobile



LTE RADIO

IP501M

Built-in Bluetooth® and GPS

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 Cancelling function (TX only)

And More

Meets IP54 and MIL-STD-810G standards • D-SUB 25-PIN connector with optional OPC-2407 cable for interfacing with other devices, various controls and data communication • Up to 500 memory address book (including Group, Individual, Talk Group 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 IP503H in the Slot and Start a Conference Call



* The LTE radio is not supplied.

SPEAKERPHONE UNIT VE-SP1

- Portable operation with LR6 (AA) × 8 cells
- Built-in loudspeaker and high sensitivity external 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)





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





1880/2000 mAh (min./typ.), IP67

EARPHONE-MICROPHONES













OPC-2359 Required when using the HS-102



 PROGRAMMING SOFTWARE and CABLE CS-IP501H Programming software OPC-478UC Programming cable

- *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.

A Handheld-Like User Interface with Optional HM-230HB Command Microphone



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)











ACC CABLE OPC-2407 With D-SUB 25-pin





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

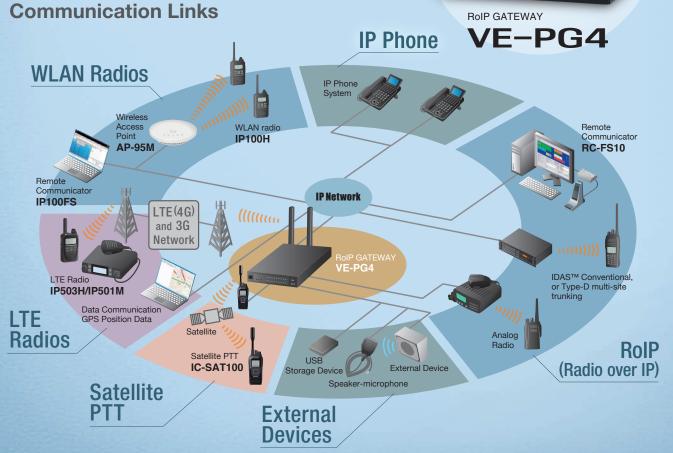
- Full-Duplex communication Short text message
- Voice Recording/Playback function Address book
- TX/RX history
- *1 IP500APP for iOS™: iOS™ version 12 or later IP500APP for Android™: Android™ version 8.0 or later
- *2 IP500APP service may not be available and will be ready in the future.

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, private 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.



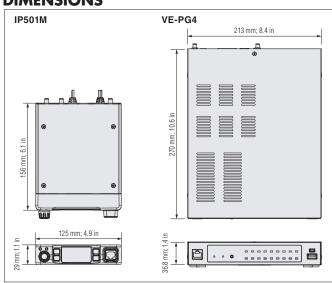


SPECIFICATIONS

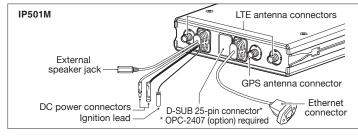
		IP503H (Handheld radio)	IP501M (Mobile radio)	
Network	USA	-	LTE (4G) bands: B2, B4, B12 W-CDMA (3G) bands: B2, B5	
	EXP	LTE (4G) bands: B1, B3, B7, B8, B20 W-CDMA (3G) bands: B1, B8	LTE (4G) bands: B1, B3, B7, B8, B20 W-CDMA (3G) bands: B1, B8	
	AUS	LTE (4G) bands: B1, B3, B5, B7, B8, B28 W-CDMA (3G) bands: B1, B5	LTE (4G) bands: B1, B3, B5, B7, B8, B28 W-CDMA (3G) bands: B1, B5	
Dimensions (W \times H \times 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 × 1.1 × 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 900 mW (8 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		17 hours (with BP-272) (TX : RX : Standby= 5 : 5 : 90)	-	
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	

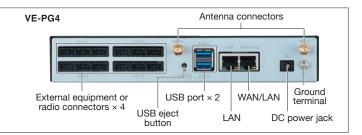
USA				
Network			VE-PG4	
Network EXP W-CDMA (3G) bands: B1, B8		USA		
Power supply 12 V DC ±10%, 4 A maximum 100-240 V AC (with the supplied AC adapter) Dimensions (W×H×D; projections not included) 213 × 36.8 × 270 mm, 8.4 × 1.4 × 10.6 in (Approximate) Weight 1.8 kg, 4 lb (Main unit, approximate)	Network	EXP		
Power supply 100–240 V AC (with the supplied AC adapter) Dimensions (W×H×D; projections not included) 213 × 36.8 × 270 mm, 8.4 × 1.4 × 10.6 in (Approximate) Weight 1.8 kg, 4 lb (Main unit, approximate)		AUS		
Weight 1.8 kg, 4 lb (Main unit, approximate)	Power supply	,		
R.I-45 type x 1 (Auto MDI/MDI-X)	Dimensions (W x	H x D; projections not included)	213 × 36.8 × 270 mm, 8.4 × 1.4 × 10.6 in (Approximate)	
RJ-45 type × 1 (Auto MDI/MDI-X)	Weight		1.8 kg, 4 lb (Main unit, approximate)	
	WAN/LAN		RJ-45 type × 1 (Auto MDI/MDI-X) 10BASE-T/100BASE-TX/1000BASE-T *WAN/LAN port selectable.	
RJ-45 type x 1 (Auto MDI/MDI-X) 10BASE-T/100BASE-TX/1000BASE-T	LAN			
Internet protocol IPv4	Internet proto	col	IPv4	
Call Control Protocol SIP	Call Control P	Protocol	SIP	
Codec G.711 μ-law, AMBE+2 TM	Codec		G.711 µ-law, AMBE+2™	
LTE Radios IP501H, IP503H, IP501M		LTE Radios	IP501H, IP503H, IP501M	
WLAN Radio IP100H		WLAN Radio	IP100H	
Satellite PTT IC-SAT100		Satellite PTT	IC-SAT100	
Compatible wodels VHF/UHF Repeaters IC-FR5000, IC-FR5100, IC-FR6000, IC-FR6100		VHF/UHF Repeaters	IC-FR5000, IC-FR5100, IC-FR6000, IC-FR6100	
	models	VHF/UHF Radios	IC-F5061D, IC-F5062D, IC-F5063D, IC-F6061D, IC-F6062D, IC-F6063D	
VHF Marine Radios IC-M605, IC-M605EURO		VHF Marine Radios	IC-M605, IC-M605EURO	
VHF Air Band Radios IC-A120, IC-A120E		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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