IP ADVANCED RADIO SYSTEM

OPTIONS

BATTERY PACKS
BP-271
BP-272
Rechargeable Li-ion
1150 mAh
1880 mAh
(min./typ.)

BP-274
BP-275
Rechargeable Li-ion
1200 mAh
2000 mAh
(min./typ.)

MULTI-CARRIER
BC-202
BC-211
BC-157S

CIGARETTE LIGHTER CABLES
CP-22
CP-23L
12 V DC
For USA plug

HEADSETS
BP-271
BP-272
Rechargeable Li-ion
1150 mAh
1880 mAh
(min./typ.)

BC-207S
HM-183LS
HM-215
MBA-7
Bracket Adaptor for BC-218
IPX7 waterproof

SPEAKER-MICROPHONES
CP-22 CP-23L
With DC-DC converter
For 12 V DC

BC-218
BC-207S
HM-153LS
HM-166LS
With PTT switch cable

EARPHONE-MICROPHONES
HM-145LS
HM-165LS

HEADSETS
HS-46S
HS-46T
HS-83S
HS-83T
VS-3

CARRYING CASES
• MB-135:
  Belt clip. Same as supplied.

• OPC-2006LS:
  Plug adapter cable.
  Either OPC-2006LS or OPC-2328 is required
  PTT switch cable.

SPECIFICATIONS

Applicable U.S. Military Specifications

Network
4G bands:
LTE B1, B3, B7, B8, B20 (EXP)

W-CDMA B2, B5 (USA)

3G bands:
LTE B2, B4, B5, B17 (USA)

Dual Band

Dimensions
59 × 95 × 32 mm; 2.3 × 3.7 × 1.3 in

(with BP-272)

240 g; 8.5 oz (with BP-272 and antenna)

(with BP-272)

Voice Codec
Internal SP
External SP

AF output power
200 mW (8 Ω at 10% distortion)

Operating time *
More than 17 hours (with BP-272)

Bluetooth
Ver 2.1 +EDR

Operating temperature
–10 °C to +60 °C; +14 °F to +140 °F

Method
500.5
I, III, II

503.5
I – C

506.5
I, IV

Notes:
* Charging is possible while the case is attached.

* OPC-2359 is required when using HS-102.

* Operating time may differ depending on operating environments.

* Either OPC-2006LS or OPC-2328 is required when using any of these headsets. (Simplex mode operation only.)

Please see our home page for detailed information about the product and for our distributors.

All stated specifications are subject to change without notice or obligation.

Count on us!

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

The IP501H 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.

Full-Duplex Communication
The IP501H enables use of full-duplex communication which provides smooth telephone style conversations. The IP501H users can talk and receive at the same time.

Multiple User Communication
Multiple users in the system can initiate calls respectively. There are no requirements to check or wait for channel availability.

Priority Interrupt Calling
The IP501H 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.

IP67 Dust-Tight and Waterproof
The IP501H has reputable waterproof performance to endure 1 m depth water for 30 minutes. It can be used for outdoor work or places prone to get wet.

Communication throughout the Coverage of LTE (4G) and 3G Network
Using a LTE (4G) and 3G network, the IP501H can provide stable connection and wide area communication throughout the coverage of the network. The IP501H does not require its own repeaters or IP network which reduces the cost of building and maintaining a wide area radio network.

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 IP501H. Even when the IP501H is not dropped into the BC-218, the Bluetooth® function enables you to wirelessly use the speaker-microphone.

Other Features
- High quality, clear audio using G.726 Vocoder
- Individual, Group, Talkgroup, Multiplex Talkgroup and All calls
- Emergency button, Lone Worker and Man Down functions
- Vibration alert function notifies of incoming call
- Text message reception and preprogrammed message transmission
- Up to 500 memory address book (including Group, Individual, Talkgroup and Telephone lists)
- Voice message recording
- Built-in Bluetooth® and GPS
* Gateway device required for GPS data (future).
The IP501H 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.

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

Communication throughout the Coverage of LTE (4G) and 3G Network

Using a LTE (4G) and 3G network, the IP501H can provide stable connection and wide area communication throughout the coverage of the network. The IP501H does not require its own repeaters or IP network which reduces the cost of building and maintaining a wide area radio network.

* Services availability depends on the country. Network coverage provided by custom ICOM SIM card.

**Full-Duplex Communication**

The IP501H enables use of full-duplex communication which provides smooth telephone style conversations. The IP501H users can talk and receive at the same time.

**Multiple User Communication**

Multiple users in the system can initiate calls respectively. There are no requirements to check or wait for channel availability.

**Priority Interrupt Calling**

The IP501H 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 IP501H has reputable waterproof performance to endure 1 m depth water 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 IP501H. Even when the IP501H 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.

**Other Features**

- High quality, clear audio using G.726 Vocoder
- Individual, Group, Talkgroup, Multiplex Talkgroup and All calls
- Emergency button, Lone Worker and Man Down functions
- Vibration alert function notifies of incoming call
- Text message reception and preprogrammed message transmission
- Up to 500 memory address book (including Group, Individual, Talkgroup and Telephone lists)
- Voice message recording
- Built-in Bluetooth® and GPS

* Gateway device required for GPS data (future).

**Interconnect between IDAS™ and IP100H systems**

With a gateway device*, the IP501H system will provide interoperability with an IP phone, analogue transceiver, IDAS™ digital transceiver and IP100H wireless LAN network systems in the future. In addition, GPS position data can be obtained from the IP501H transceiver.

* The gateway device will be available in the future.

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**RoIP**

**IP Advanced Radio System (Wireless LAN)**

**IP Phone System**

**RoIP (Radio over IP)**

**IP501H**

**IP1000C**

**AP-90M**

**IP100H**

**Gateway device**

Controller Server

IP5000C

![LTE (4G) and 3G Network](image-url)
**OPTIONS**

**BATTERY PACKS**
- BP-271: Nickel Cadmium (Ni-Cd) battery pack
- BP-272: Nickel Metal Hydride (Ni-MH) battery pack

**RAPID CHARGER**
- BC-207S: Charger cradle with USB port
- MBF-1: Mounting Base
- OPC-2359: PTT switch cable

**MULTI-CHARGER**
- BC-1021, BC-157S

**CIGARETTE LIGHTER CABLES**
- CP-22: WB-DC-DC converter (12 V DC)
- CP-22L: For 12 V DC

**CHARGER CRADLE**
- BC-218: Cigarette lighter cable (for use with BC-218)

**HEADSETS**
- HS-06**: Earphone-microphones
- HS-65**: Headset-microphones
- HS-83**: Headset-microphones
- VS-3: Multifunctional headsets

**CARRYING CASES**
- MB-135: Belt clip, same as supplied
- OPC-2328: PTT switch cable

**新时期**

**SPECIFICATIONS**

**Network**
- HS bands: LTE B1, B3, B7, B8, B20 (experimental)
- HS bands: W-CDMA B1, B8 (experimental)

**Dimensions**
- 140 x 71 x 44 mm; 5.5 x 2.8 x 1.7 in

**Weight**
- 240 g; 8.5 oz (with BP-272 and antenna)

**Operating Temperature**
- –10 °C to +60 °C; +14 °F to +140 °F

**IP Rating**
- IP67

**Internal Spark**
- G.726 (32 kbps)

**AF Output Power**
- More than 17 hours (with BP-272)

**Ver 2.1 + EDR**

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

**All stated specifications are subject to change without notice or obligation.**

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**LTE Transceiver**

**LTE (4G) and 3G**

**ABOUT**

**Push-to-Talk Instant Communications**

**Communication throughout the Coverage Area of**

**LTE (4G) and 3G Network**

**Talk and Listen Simultaneously: Full-Duplex Conversation**