



**LTE, IP & SATELLITE PTT
COMMUNICATIONS**



ICOM UK LTD

Icom UK Ltd was established in 1974 and is the sole UK & Republic of Ireland importer and distributor for Icom Inc., of Osaka, Japan. Based in Herne Bay, Kent, the company is privately owned with over 30 staff.

Icom has an extensive portfolio of radio transceiver, receiver and navigation products that are available to customers in the commercial, marine, Amateur & aviation markets. Equipment is available in fixed-base, vehicle-mobile and handheld formats to suit a wide range of customer requirements.

ICOM

Icom is a global leader in the communications industry. The company prides itself on their products which are renowned for their high quality, innovation, reliability, and design. With over 50 years' experience, Icom ensures that their products are delivered with excellence in design and technical capability. Icom has an extensive range of products that are designed to withstand the most rugged and extreme conditions. Products include base-station, mobile and handheld units covering many frequency bands.

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LTE ADVANCED

Icom LTE Advanced Radio System

The LTE radio system from Icom is designed to combine the very best of cellular network coverage and radio communications. Introduced in Japan just over two years ago, Icom now boasts a huge number of users who are benefiting from the flexibility, ease of use, robustness, no licence fees or costly infrastructure and absolute reliability. Just like a conventional radio, the IP501 uses simple Push-to-Talk (PTT) operation with no dial-up or complicated setup.

IDEAL MARKET SECTORS

Event Management

Event companies that continuously move from site to site but don't have the time to invest in infrastructure but only need radio communications, regardless of where they are.



Security

Security companies that operate on numerous sites and want a flexible communication system but don't want to invest in infrastructure



Logistics and courier companies

Our LTE radio is a perfect communications platform for a logistics company, providing an incredible range and a simple communication solution at reasonable cost.



Hotel and conference centres

Hotel and conference centres are in many cases large, complex sites which may suffer from drop outs or dead zones with a normal radio system.



Sports Events/Sports Associations

Excellent option for sports events that cover long distances and need communication. Also works if you plan to compete abroad.



Rail Network

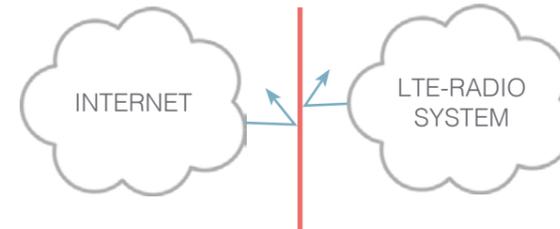
A LTE radio system can assist in providing smooth operation for maintenance, operations, guard services and security departments across a regional rail network.



BENEFITS OF LTE-RADIO

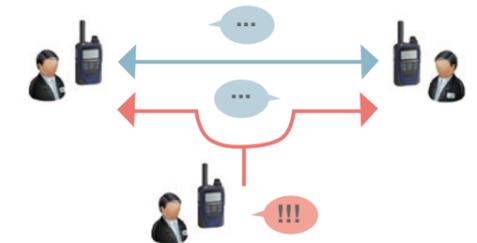
SECURE / CLOSED SYSTEM

Users in the system are located in protected and separate clusters that are unrelated to each other or the Internet. This provides a safe and secure solution for your organisation.



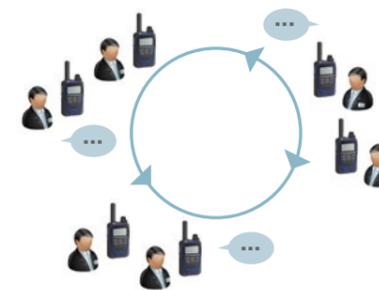
PRIORITY

In the network, you can have different priority groups of users, which means that you can break or just enter an ongoing conversation when there is urgent information to share.



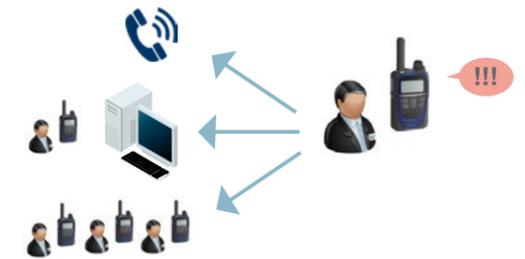
CONFERENCE CALL

In this system you can create groups of users. You can choose whether it should be duplex or simplex communication in a group.



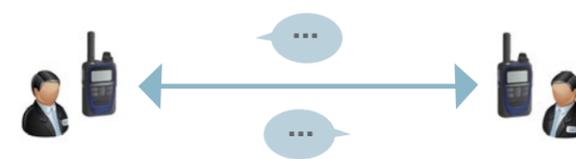
EMERGENCY FEATURES

The IP501H LTE Radio is equipped with an emergency button and emergency related features including Man Down, motion detector, inactive movement and lone worker function. The alarm can then be sent to an individual, group or text.



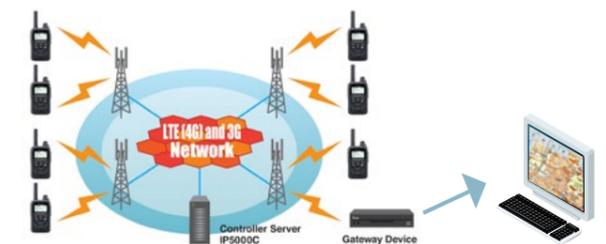
FULL DUPLEX / HANDS FREE COMMUNICATIONS

Full duplex communication can be a strong reason to choose an LTE radio system as a platform. This works both within a group and between individuals.



GPS POSITIONING

Thanks to built-in GPS in the LTE radios you can have regular or alarm-related positioning of the handsets/radios in the system.



ACCESSORIES

The IP501H has an extensive range of accessories designed for different market sectors. You can view these in this brochure.



RADIO COVERAGE

The 3G / 4G mobile phone networks cover more than 90% of UK populated areas*. Without the need for conventional radio infrastructure or expensive licencing, LTE offers almost blanket coverage.

*Percentage based on average figures gathered from EE, O2 & Vodafone.



IP501H

Introducing the Icom IP501H LTE Radio

Icom's IP501H uses cellular network coverage provided by the LTE/4G and 3G network to provide you with stable communication throughout the coverage area. The custom Icom SIM card (supplied with the handset) is able to roam between the three leading network providers in the UK, allowing you to harness the strongest 4G signal available in your area. If 4G is unavailable, then the roaming SIM will automatically switch to the strongest 3G network. The Icom custom SIM card is also capable of roaming throughout Europe as standard.

The IP501H is small, lightweight and a licence-free solution which offers, clear audio over a fully secure private system.

No Licence Required, Fully Secure System

The IP501H does not use the conventional radio spectrum. Coverage is provided by the 4G/LTE and 3G network so no licence application forms and no license fees. The system is hosted on a fully secure server located in the UK.

Full-Duplex Communication

The IP501H enables full-duplex communication providing uninterrupted conversation where users can talk and receive at the same time in individual and group call.

Multiple User Communication

Multiple users on 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 and in case of an emergency, you can break into an on-going call to transmit an important message.

Compact and Lightweight Handset

With a compact (59x95x32 mm) and lightweight (240g) body*, the IP501H allows non-intrusive use.

*With BP-272 battery pack and antenna.

IP67 Dust-Tight & Waterproof

The IP501H has waterproof performance to endure 1 m depth water for 30 minutes. This means it is ideal for outdoor use.

Bluetooth® Functionality

The IP501H has built in Bluetooth which allows you to connect headsets* wirelessly that allow you to operate the radio and its controls.

*Not all third-party Bluetooth headsets are compatible with the IP501H.

OTHER FEATURES

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



THE BEST OF BOTH WORLDS

Icom's new LTE radio system allows you to communicate with your two-way radio system over a 4G/LTE closed private network. Now you can benefit from licence free nationwide coverage for your business without the use of repeaters thus reducing the cost of infrastructure and maintenance cost of a wide area radio network. or 'All calls' can be made the same way as a conventional two-way radio.

Icom's new LTE radio system provides full duplex nationwide area communication using a 4G/LTE closed private network and instantaneous communication with PTT operation. The closed system will operate from a private LTE mobile data network providing an extra level of security. 'Individual calls', 'Group calls'

COMPARING THE LTE-RADIO SOLUTION WITH OTHER TECHNOLOGIES

SMARTPHONE vs ANALOGUE RADIO vs LTE RADIO

There are obviously pros and cons with all types of radio systems. The LTE radio provides a very useful solution for many business sectors. Read the table below and see if the LTE radio is something that suits your business.

SMARTPHONE

Benefits

- High functionality
- Open standard
- Multifunction Product
- Good coverage
- License Free

Drawbacks

- No priority
- High delay
- Complex operation

ANALOGUE RADIO

Benefits

- Simple solution
- Easy to use
- Open standard
- Low cost

Drawbacks

- Expensive Licensing
- Low security
- Short range
- Additional cost to expand your system

LTE-RADIO

Benefits

- High security
- Good sound quality
- Full duplex communication
- National/International Coverage
- Easy operation
- Licence Free

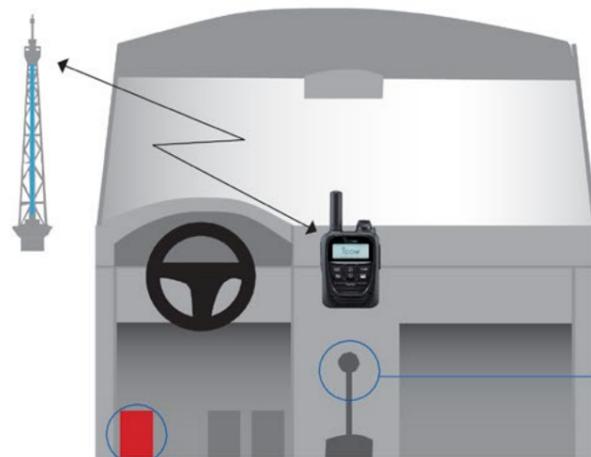
ACCESSORIES

BLUETOOTH®



 BC-202IP2 Desktop charger	 BC-218 Charger cradle with Bluetooth function	 BC-211 6 way multi charger including AD-127	 MBA-7 Bracket adapter for BC-218	 BP-271 Li-Ion battery pack 7.4V/1150mAh	 BP-272 Li-Ion battery pack 7.4V/1880mAh
 PRO-P245LP D-ring headset, inline PTT with 80cm cable, black	 PRO-P220LP Air hose, mini-PTT, transmitting switched function	 PRO-AT35L Acoustic air tube, fabricline, 3.5mm jack	 HS-94 Earhook type headset	 HS-95 Behind the head type headset	 HS-97 Throat type headset
 CP-23L Cigarette lighter cable	 MB-135 Belt clip	 HM-215 Speaker-microphone for BC-218	 OPC 2328 PTT Box with transmission lock function	 Pro-PTT LP With 2.5mm Female Connector and PTT	 Case.066 Leather case For IP501H inc. Klick-Fast

Three scenarios for using the IP501H in your vehicle



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Connect the IP501H to a Peltor WS headset and get a unique and highly effective solution, where you can easily send the PTT button on the cover.
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Connect the LTE radio to a third party Bluetooth capable headset*. Depending on the Bluetooth headset used, you can control the PTT with the headset.
*Please note, not all third party Bluetooth headsets are compatible with the IP501H.
- 

You can connect the radio to the BC-218 Bluetooth holder. The radio connects when it is placed in the BC-218 and a headset or hands-free kit can also be connected (via Bluetooth) to the holder. To handle the PTT function, connect a wired PTT (foot/finger-PTT) to BC-218.



BLUETOOTH® ACCESSORIES

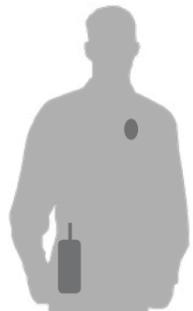
A third-party headset* and BT560 Bluetooth speaker microphone allow you to easily control features of your radio. They could feature volume control, USB charging, high sensitivity microphone and support PTT over Bluetooth operation. *Please note, not all third-party Bluetooth devices are compatible with the Icom IP501H




Third Party Headset
Bluetooth® capable headset




PRO-BT560 Speaker Microphone
High-sensitivity noise-reducing microphone, volume control, 8 hours talk time and support for Bluetooth® PTT, 3.5mm jack

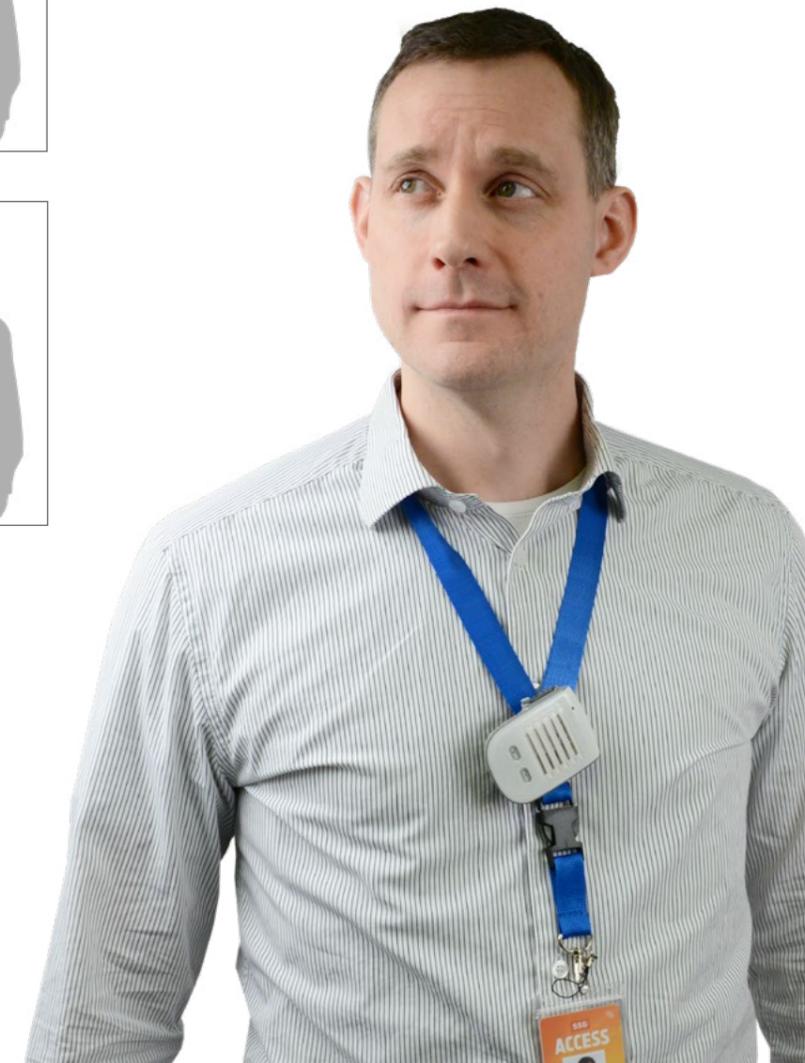


All products below have 3.5 mm connector

 PRO-D30L D-Shell, adjustable brace around the ear, 3.5 mm connector	 PRO-AT35L Air line Fabric line, 3.5mm connector
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Also suitable for other headsets / earphones with a 3.5 mm connector.



Devices with support for 2 connections - smartphone and / or radio with Bluetooth®



Nighthawk is a professional Bluetooth device that gives you long talk time, easy pairing, stable connectivity, and Bluetooth PTT support. Other features include volume control, convenient USB charging, a targeted microphone for high sensitivity, robust clipping and, above all, the ability to control multiple communication devices.

The PRO-BT550 Bluetooth headset also supports dual connectivity with a smart phone and your radio as well as offering the ability to control both communication devices

PRO-BT Nighthawk
High-sensitivity noise-reducing microphone, volume control, 12+ hours talk time and 150 hours standby, Bluetooth@PTT support, 3.5mm jack for clam / headset.

PRO-BT550 Headset
Bluetooth mini headset, volume control, 12-hour talk time, 100-hour standby time, Bluetooth PTT support and including charging cable.

Many other accessories are available. Please contact us for more details

All products below have 3.5 mm connector

<p>PRO-D30L D-Shell, adjustable brace around the ear, 3.5 mm connector</p>	<p>PRO-AT35L Air line Fabric line, 3.5mm connector</p>
<p>Also suitable for other headsets / earphones with a 3.5 mm connector</p>	



IP501M

Icom IP501M Radio

Icom's IP501M follows on from the successful IP501H LTE radio handheld. This mobile variant also uses the LTE/4G and 3G network to provide you with stable communication with nationwide coverage. The IP501M features a simple, easy to use display as well as a fist microphone or the optional command microphone (HM-230HB) which features a full user keypad.

The IP501M uses the same PTT operation as the IP501H and the two are interoperable with each other. This allows users and companies to have a mixture of handhelds (IP501H for individual use) and mobiles (IP501M for vehicle use).

Full-Duplex Communication

Just like the IP501H, the IP501M also supports full-duplex communication for users to talk and receive at the same time during 'Individual' and 'Group Calls'.

Priority Interrupt Calling

If you need to transmit an important message, you can break into the on-going call to deliver the emergency message.

No Licence Required, Fully Secure System

The IP501M does not require licencing from a governing body. This allows you to install the IP501M in shared vehicles and for those that cover a large distance e.g. logistics companies, taxi companies.



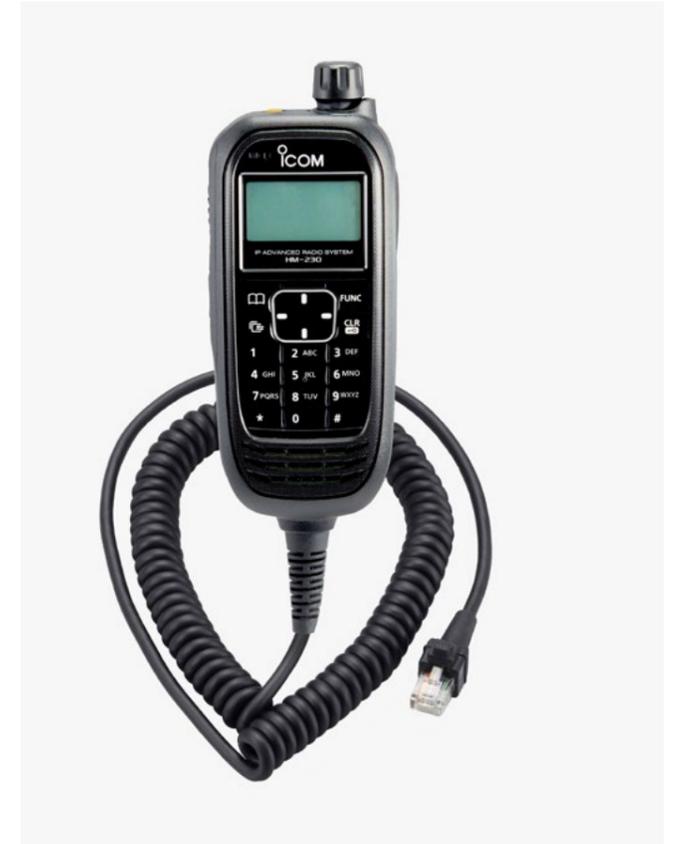
Optional HM-230HB Command Microphone

With the optional HM-230HB command microphone connected, users have a display and 10-keypad control giving a handheld-like interface.

Built in Bluetooth

With the built in Bluetooth, you can connect a headset* wirelessly to provide hands-free operation of the IP501M. The Bluetooth accessories listed in the Bluetooth section of this catalogue are compatible with IP501H & IP501M.

*Not all third-party headsets are compatible



DISPATCHER

LTE Dispatcher Manager *

The LTE Dispatch Manager is an ideal application for organisations or users that prioritise security and staff safety. As the IP501H handset and IP501M mobile units feature GPS, the Dispatch Manager can provide tracking information wherever you are throughout UK & Europe. This versatile application allows organisations or users to keep track of people, vehicles & assets.



GPS Tracking

The Dispatch Manager allows tracking of LTE radios. The time interval between GPS transmissions to the Dispatch can be programmed (from 2-minute intervals up to 1 hour). The application can also provide a GPS history to show where the radios have been.

Web Based Client

A secure web-based client will also be available so users can access GPS information wherever they are*. This secure client application will be password protected and the dealer will have an administration interface.

*Internet connection required.

Downloadable App Available

The Dispatch Manager will also be available to download from Google Play and the App Store. This gives users more versatility with their radio management system as they can track the radios on a mobile or tablet.



LTE RADIO FAQs

LTE Radio System FAQs

After looking through the LTE radio system, IP501H & IP501M, you may have some questions. Below are the most commonly asked questions that we are faced with and hope they will help provide a greater understanding of our innovative new system.

What is involved in the installation of an Icom LTE Radio System?

There is nothing more involved than purchasing the radios and signing up to a SIM & server contract running over two or three years. We will set up the SIM and terminal to your preference and once you have received your handsets, it is all ready to go.

What type of scenarios would the Icom LTE radio system be useful for?

The LTE radio system can be used in many different scenarios offering users a complete communications package without a huge infrastructure to manage. Wide-area coverage is accessible without the need to setup repeaters, cables or antennas. You can just turn the LTE radios on and begin transmitting.

If you're in a built-up area where VHF/UHF use is limited or susceptible to drop outs, then the LTE radio system would be ideal. Another scenario is being able to deploy this system at short notice, such as for events like marathons, car/motorbikes exhibitions, public exhibitions etc.

Is the IP501H just a mobile phone?

No. The IP501H is not a mobile phone. It's a push to talk two-way radio terminal that works over the 4G/LTE/3G networks. The unit is designed to be used for commercial environments where you need to talk to one or more parties straight away. There is no need to dial a number as you push to speak directly to the other person or people in the group. It is designed to withstand rough environments and meets tough IP67 standards.

I am worried that the radios data could be used up by checking social media, private text messages etc. Should I be concerned about this?

These radios can only be used for communication purposes and can only be contacted by other radios programmed onto the same system. The LTE radios are operated just like a conventional radio where you push the PTT button and speak. You do not need to download any further apps or have an extensive menu where users can get distracted.

Does the IP501H/IP501M require a SIM card?

Yes, the IP501H & IP501M does require a SIM card. However, it is a custom SIM which is very different from your regular smartphone or tablet. The Icom custom SIM card will not work in any other device and a phone SIM card will not work in the LTE radios.

What is the difference between a regular SIM and Icom's custom SIM card?

While a regular SIM allows you to use voice & data, it is locked to a specific carrier. The Icom custom SIM card is a roaming SIM which is capable of roaming throughout Europe allowing you further communication capabilities then before, harnessing the strongest 4G signal in your area from one of the top 3 network providers in the UK and uses just data.

Please note, a regular SIM would not work in the LTE radios and the Icom custom SIM card will not work in other devices.

What kind of accessories are available for the IP501H?

You can refer back to page 8 of this catalogue where a number of accessories are listed including headsets, earpieces, cases and Bluetooth accessories that allow wireless control of the IP501H. Please feel free to contact us for further information on accessories or in help in selecting accessories that match your needs.



What is the coverage range of the Icom LTE Radio system?

A UK based customer will have coverage throughout the UK utilising EE, Vodafone and O2. As EU roaming tariffs are the same across the continent, you should have equal coverage in EU states at no additional charge. Outside of the EU, a roaming agreement is available. Please contact Icom UK for more details.

4G coverage in my area is inconsistent, does this mean I cannot use the radios?

As the custom Icom SIM card is not locked to one specific network and is a roaming SIM, the radios can lock onto whatever signal is strongest, whether that is 4G or 3G.

Do I need a radio licence to operate the LTE radios?

No. The radios do not use the conventional radio spectrum and therefore do not require a governing body to licence them.

What is the cost involved in setting up an LTE Radio System (for example, does it need a repeater)?

Unlike conventional radio, there is no requirements for infrastructure investment. No need to invest in repeaters, cabling and radio programming. Once set up by your dealer, it's as simple as turning on the unit and pushing the PTT (push-to-talk) button.

Where is the server located that manages the network?

Our server is based in a secure location in the UK. We've worked diligently to make sure that the highest level of encryption is in place on the cloud server to secure your private data and communications as well as adhering to all data privacy handling requirements to maintain your best interest.

Is there an app available to download for my phone or tablet?

There is an app available to download that lets you monitor the GPS positioning of your fleet of radios as well as a web-based client which you can securely access via a specified username and password.

What is included in the Icom Data Plan?

The Icom Data Plan is:

- A 2- or 3-year contract with a fixed monthly fee (including connection)
- Each contract will include a dedicated built-in sim card that covers the three leading UK mobile phone carriers (e.g. EE, Vodafone and O2).
- Closed Private and Secure network.
- Monitoring of the system and network
- Radio firmware updates all managed by Icom

Can the LTE radios be programmed to my specific needs?

The IP501H & IP501M can be programmed to whatever groups, contacts and emergency button functions you will need. The radios utilise Over-The-Air-Programming (OTAP) so if you change your mind about a button function, or need to add another user/radio, there is no need to get the radio back to programme. The programming change can be made, the radios turned on, and the latest update will apply.

So, what is the next step? What do I need to get started?

The first step is to purchase IP501H handhelds or IP501M mobiles and accessories through one of our many Icom LTE dealers. We are working on many attractive packages which our dealers can offer you including buying the radio outright or with yearly plans which includes support or even hiring packages for events or jobs where only short-term radio usage is needed.



IP ADVANCED

IP Advanced Radio System

Icom's innovative IP advanced radio system provides the ability to contact any member of your staff at any time utilising an existing or new IP/WLAN network. The WLAN based system offers a scalable licence-free communication system using standard wireless networking products, which in many cases, may already be in place.

The system is particularly suitable for:

- Hotels and resorts
- Shopping centres and department stores
- Restaurants / catering
- Factories
- Hospitals
- Tunnels and underground buildings
- Historic Buildings and museums
- Private communications onboard vessels

Licence Free System...No Call Charges

As you'll be using standard wireless networking infrastructure, radio licences are not required. This means no licencing forms to fill out and no licencing fees to pay.

Scalable, Yet Secure System

The IP/WLAN system from Icom offers a scalable licence-free communication system using standard wireless networking products. Secure encrypted communication is provided by the WPA-PSK and WPA-PSK2 wireless security protocols that encrypts calls.

Multiple Simultaneous Use (Full Duplex)

12 full duplex calls can transmit simultaneously at any one time. With an optional headset, the IP100H transceiver can talk and receive at the same time in a smooth conversation-like manner.

Information Terminal Position

The optional RMS-Net Dispatch Manager receives information about the location of each transceiver based on the access point to which it is recorded and represent it graphically on the screen.

Simple System to Manage

Almost all configurations for the IP100H are programmable over the air. Individual PC programming via cable connection is not required.

Different Types of Calls

The IP100H/RMS-Net can make individual call, group conference call, all call and area call. The unique area call function allows you to call any user who is accessing the specified access point.

Mixing Function

The mixing function receives multiple users voices at the same time. Multiple communication is possible and increases efficiency of information sharing.



Roaming

In a network consisting of two or more access points connected via IP, a transceiver can roam from an access point to another without losing communication.

Short Text Messages & Status

The IP100H/RMS-Net can send status and short data messages* to other users. The IP100H vibrates powerfully when receiving these messages.

* Pre-programmed message only for IP100H.

Can Be Added to The System:

- Optional RMS-Net radio dispatcher.
- The new high performance access point Icom AP-95M. The system also works with third-party access point* (IEEE 802.11 a/b/g/n, ac).

* Icom does not guarantee compatibility with all brands on the market

IP Phone & Transceiver Interconnection

With the VE-PG4 RoIP gateway, the IP advanced radio system can interconnect with an IP phone, analogue transceiver, IDAS™ NXDN™ digital transceiver, PA systems and the LTE radio system.



Wireless LAN System Extends Your Communication Coverage.

Individual, Group or Area Communication



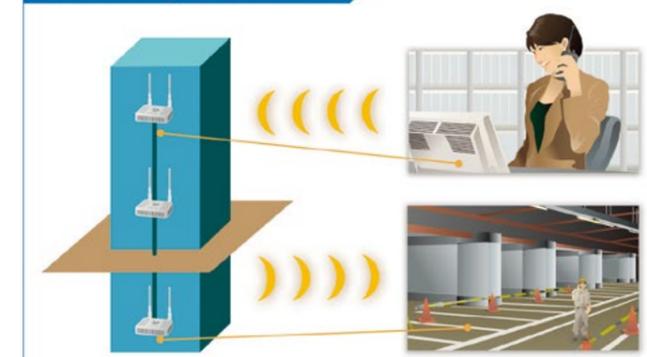
Staff spread across an extended site, such as a hotel, can communicate seamlessly.

Hands-free, Full-duplex Communication



With an optional headset, the IP100H user can talk and receive simultaneously like a phone call. Hands-free operation allows your staff to carry out other tasks at the same time.

Intra-building Communication



By deploying access points along the IP network, the IP advanced radio system can communicate all the way from the basement to the top floor. The IP100H can access the nearest access point and can roam between access points*. *Same SSIDs are required for roaming use.

Dispersed Sites Communication



If connected over an internet VPN, the IP100H can communicate between dispersed sites such as offices or shops in different cities'

IP100H

ACCESSORIES

Introducing the Icom IP100H IP Radio

Despite its size, Icom's compact IP100H WLAN/IP radio, is a powerful radio packed with many features.

The IP100H acts as a wireless network radio. Everyone in your group can hear and talk with the rest of the group using the 'Group Call' function. Individual calls are also possible as well as full-duplex calls. The radio can also move freely within the wireless network and coverage for your radio system can be easily expanded by adding further access points (AP-90M).

Full-Duplex Capabilities

The radio can handle both individual and group calls all while utilising full-duplex communication*.

*Full-duplex communication capabilities available for the IP100H when an optional headset is connected.

Excellent Audio Quality

The built-in speaker provides outstanding audio quality. Users can clearly hear what is being said and without delay.

Long Operating Time

The IP100H has a long operating time of over 20 hours* with the supplied BP-271 Li-Ion battery pack.

*Tx:Rx: Stand-by=1:1:8 duty cycle

High Security with Encrypted Communication

Secure encrypted communication is provided by the WPA-PSK and WPA-PSK2 wireless security protocols that encrypts calls.

Vibration Alert & Emergency Call Features

When receiving incoming calls or text messages*, the IP100H vibrates to notify you of the incoming transmission. The IP100H can also send out an 'Emergency Call' from the specified button on the handset.

*Pre-programmed messages only for the IP100H

IPX7 Waterproof

The IP100H is waterproof to a depth of 1 meter for 30 minutes. This means the radio can withstand outdoor work in some of the harshest environments.

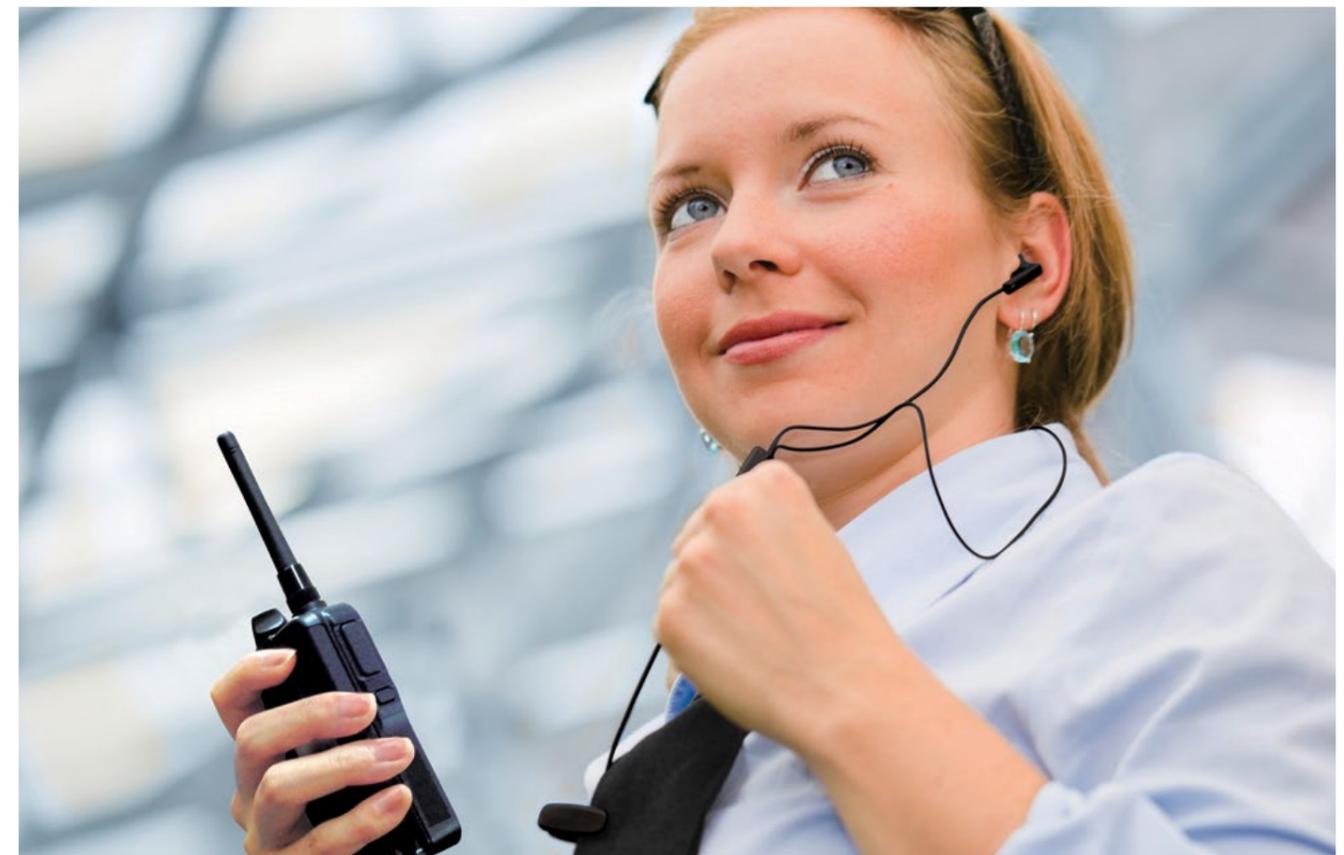
Compact, Robust Body with Full-Dot Matrix Display

The compact (58x95x26.4 mm) and lightweight (205g*) IP100H handheld is one of the smallest radios in the market and it fits perfectly in the users' hand whilst featuring an easy to read full-dot matrix display.

*With BP-271 Li-Ion battery pack fitted.



 <p>BP-271 Li-Ion battery pack 7.4V/1150mAh</p>	 <p>BP-272 Li-Ion battery pack 7.4V/1880mAh</p>	 <p>BC-202 Fast charger</p>	 <p>BC-211 6 way multi charger including AD-127</p>	 <p>HM-166LS Earphone type microphone</p>	 <p>HM-186LS Compact speaker microphone with 3.5mm jack</p>
 <p>HS-94 Earhook type headset</p>	 <p>HS-95 Behind the head type headset</p>	 <p>HS-97 Throat type headset</p>	 <p>OPC 2328 PTT Box with transmission lock function</p>		



RMS NET

RMS-Net

RMS-Net is a digital radio management system ideal for almost any organisation that cares about security and staff safety. RMS-Net integrates voice radio communication, text/status messaging, and a range of security features in a system that logs all radio traffic onto a central computer database. The desktop dispatcher can keep in touch with radio users via their own computer. RMS-Net is designed to be fully interactive ensuring dispatchers/supervisors are able to monitor and respond rapidly to situations as they occur.

A powerful tool for management control, providing a detailed view of staff deployment and resources

A major strength of RMS-Net is its reporting features. All radio traffic is logged and stored on a central database. This is ideal for management control and future resource planning including personnel database management. It may provide motivation for staff to perform their assigned tasks and provide conclusive documentation that they have done so. In addition, the centralised nature of the system ensures rapid response to incidents as they occur as well as the managed prevention of potential incidents. .

Aids Health & Safety Management Requirements

RMS-Net satisfies the growing health and safety and management demands faced by organisations today. It provides a range of emergency alert functions with the use of Mandown, Loneworker and panic button features. It also provides extensive records/reports on all radio traffic should an organisation need it.

Voice Recording

The ability to have at hand a record of an incident is important and can provide a useful training aid. Providing searchable records for health and safety is a very important issue for many organisations and businesses, should an incident ever go to court or tribunal. With RMS-Net new voice recording function, you can now record audio for a pre-set amount of days on a PC (normally 30 or 60 days). If voice is recorded in conjunction with an IDAS, 5 Tone or a BIIS system it will log the ID of the person who is talking. This can then be extracted onto a WAV file, providing a full conversation log. This voice recording capability can also be tied in with the standard reporting functions of RMS-Net which gives you the data log of who is talking, status messages, log on/log off, emergencies, internal positioning etc.



Connect with Dispersed Sites with IP Remote Dispatch Capability

Icom's optional VE-PG4 RoIP gateway provides IP remote dispatch capability, allowing you to remotely control your radio system from elsewhere using the internet. This essentially means that the PC does not have to be within the radio coverage of the system. In the past, most RF dispatching systems needed to be localised, but now with this new IP remote dispatch capability, it doesn't. If you have an IP network or local LAN network, you can put the radio in the optimum position and control it remotely from elsewhere in the building, in a different city or even in a different country. It can also be controlled via multiple PCs used by multiple operators.

Interrogate database

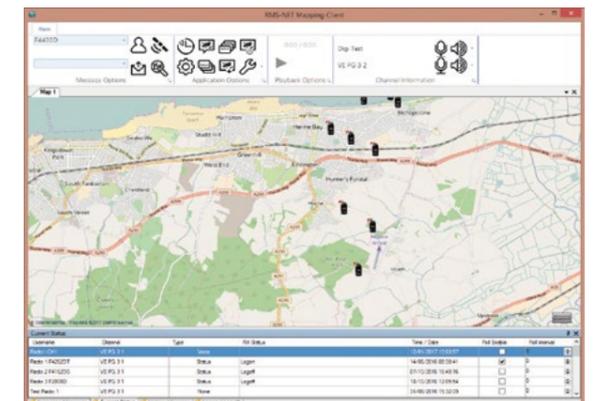
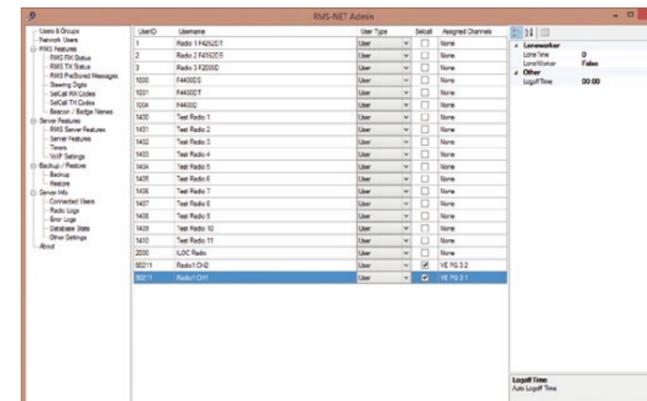
With RMS-Net it is possible to rapidly see which radios are logged on and being used on that day. This is achieved by decoding the radio's unique ID at switch on and flagging the user as active on the system. The hand-portables are supplied pre-programmed with text and status messages so users can easily keep the central control room informed of routine operations.

Digital/analogue mixed mode operation

RMS-Net can be used in either analogue or digital mode or a mixture of analogue and digital on the same site. You can partially introduce digital radios, while using the existing analogue radios in a system. RMS-Net allows you to scale migration to narrow band digital at your own pace, while running an existing analogue system.

OTHER FEATURES

- Various Loneworker settings
- Logon acknowledgement function
- Message queuing and reminders
- Message redistribution
- Emergency message functions
- Multiple channel support
- Emergency Features
- Custom reporting available pertinent to their business.
- Windows 64 & 32 bit compatible



VE-PG4

VE-PG4 is designed to improve the functionality of a radio network and facilitate radio usage through the utilisation of IP networking technology. VE-PG4 has two modes; converter mode and bridge mode. The Converter mode converts the radio network audio to an IP protocol (VoIP) and enables interconnection between various connected devices. Bridge mode can connect radio channels via networks, regardless of frequency or type of radio.

Converter Mode

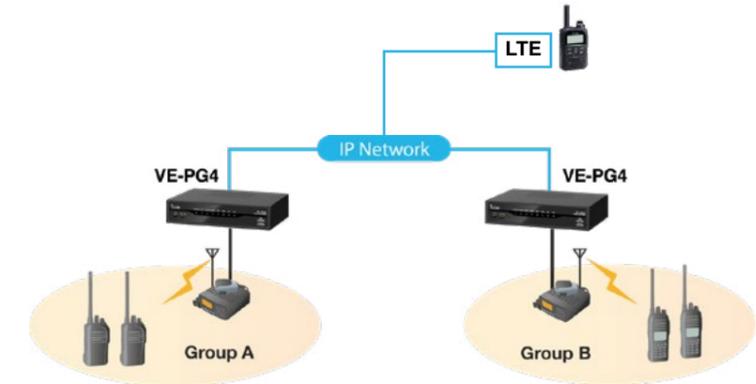
VE-PG4 has RoIP (Radio-over-IP), SIP gateway, IP router and IP PBX features built-in as standard. The VE-PG4 integrates digital and analogue devices with SIP and analogue telephone systems. Available connections through VE-PG4:

- SIP Digital Telephone Switch
- IP Phones
- PA System
- Analogue radio
- IP Radio system
- LTE Radio System
- Digital IDAS radio site



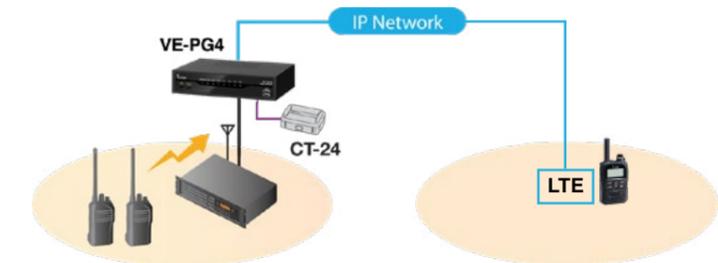
Bridge mode between two radio systems

In bridge mode, two radios are connected to each other over an IP network. This diagram is an example of a bridge configuration where users under one site can talk to users under the other site.

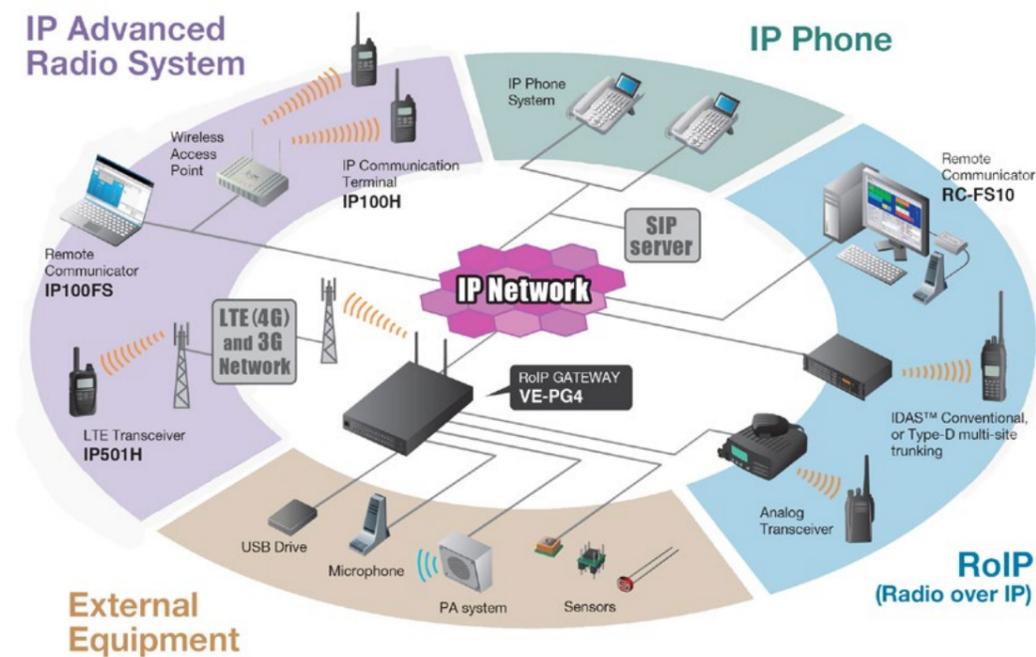


Bridge position between two sites

VE-PG4 can be a bridge between a radio (analogue or digital) over to an IDAS system. As seen in the diagram, users of one system can talk to users in another system.

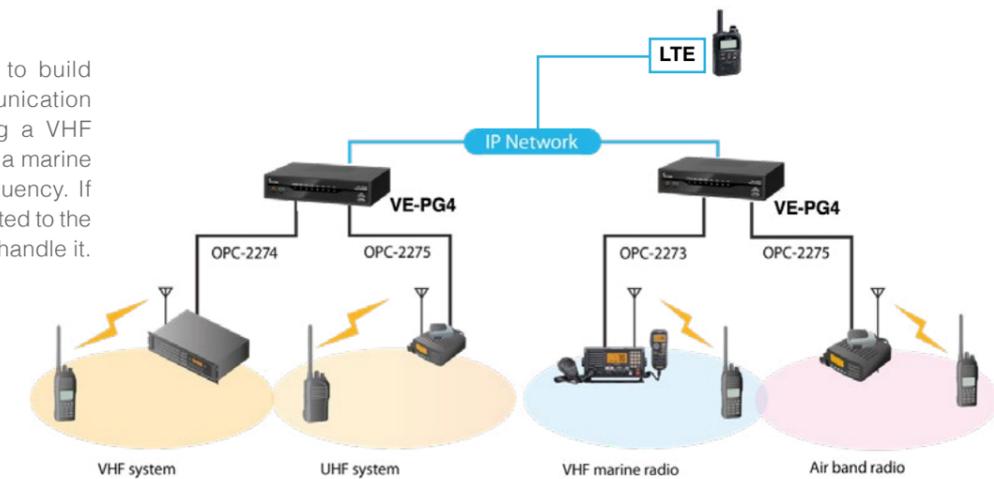


VE-PG4 CONNECTIONS



Connection to dispatcher

With a VE-PG4 it is possible to build links between different communication systems. For example, linking a VHF network with a UHF network, or a marine frequency with an aviation frequency. If only two radios are to be connected to the same site, a single VE-PG4 will handle it.



SATELLITE PTT

Satellite PTT System

Icom has entered into a working partnership with Iridium to develop and manufacture a new satellite communication device called Satellite PTT. The collaboration will combine Icom's 54 years of expertise and knowledge with Iridium's satellite experience to provide a professional radio communications solution that will enable users to communicate whenever they want and wherever they are in the world.

IC-SAT100 (Launch Date to Be Announced)

Iridium Satellites

The IC-SAT100 will communicate through Iridium's multiple satellites offering stable and reliable connection throughout the globe. The 66 Low Earth Orbit (LEO) Iridium satellites cover the entire globe and are more reliable than the Geosynchronous Equatorial Orbit (GEO) satellites that are used in radio and television broadcasting.

PTT Operation

The handheld will operate the same way as a conventional radio, simple PTT operation offering real-time, multi-user communication across the globe. The IC-SAT100 offers coverage in the most remote, mountainous and isolated areas where traditional mobile phones or land line network infrastructures are rendered obsolete. This makes the Satellite PTT a very stable, attractive backup.

Icom Robust Body

Icom's expertise in making robust, rugged bodies for their radios will be fully utilised to create an ergonomically, tough satellite handheld.



ICOM

Satellite PTT
IC-SAT100



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