

ICOM PoC-RADIO

NATIONWIDE COVERAGE OVER 4G/LTE NETWORK



 ICOM

IP501H

Introducing the Icom IP501H PoC radio

The New PoC (Push to talk Over Cellular) radio system from Icom is designed to deliver the very best features from LTE and radio communications.

The IP501H uses 4G/LTE mobile phone network as its back bone infrastructure allowing communication outside of your traditional limiting RF radio coverage. This can include country and worldwide roaming to continue your conversations as if you were still around the corner. The PoC radio system will fall back to a 3G network if 4G is unavailable.

FEATURES

- Nationwide Coverage Over 3G/4G/LTE Closed Private Network
- Emergency button and emergency related features including Man Down function and lone worker function
- Compact (95mm (H) x 59mm (W) x 26mm (D)) and lightweight (240g)
- IP67 Waterproof rating (1 m depth for 30 min)
- Vibration alert function notifies of incoming calls
- Full duplex communication
- Licence-Free solution
- Bluetooth (Peltor PTT support)
- GPS
- High quality, clear audio
- Voice message recording
- Individual and group calls in full duplex...even without the use of accessories
- Flexible monthly budgeting
- Priority interrupt
- 500 item address book



THE BEST OF BOTH WORLDS

Icom's new PoC 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.

Icom's new PoC 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' or 'All calls' can be made the same way as a conventional two-way radio.

The IP501H is the radio that is used in Icom's PoC solution. The IP501H is a compact and powerful radio filled with many features suitable for business users. The radio handles both simplex and full-duplex communications and, in addition, also conference calls in large groups, much like a two-way radio. IP501H is one of the market's smallest professional radios measuring only 95 mm high and weighs only 205 grams. The radio is IPX7 waterproof and can handle 1 metre of water depth for 30 minutes.

COMPARING THE PoC-RADIO SOLUTION WITH OTHER TECHNOLOGIES

PoC-RADIO vs ANALOGUE RADIO vs SMARTPHONE

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

PoC-RADIO

Benefits

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

Drawbacks

- None

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

SMARTPHONE

Benefits

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

Drawbacks

- No priority
- Simplex only
- High delay
- Complex operation

ICOM PoC-RADIO SYSTEM

Icom PoC-radio system

Icom's PoC radio system has been successfully deployed in Japan. The system has been running for over two years and has a huge amount of users already benefiting from the systems flexibility and ease of use. The network has proven to be extremely reliable and very robust.

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 PoC 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

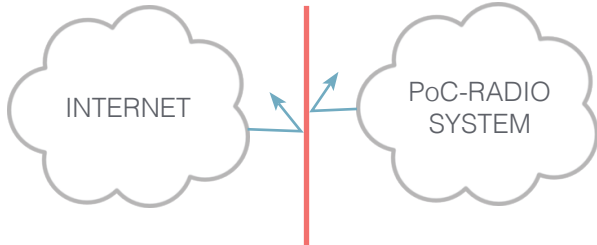
A PoC radio system can assist in providing smooth operation for maintenance, operations, guard services and security departments across a regional rail network.



BENEFITS OF PoC-RADIO

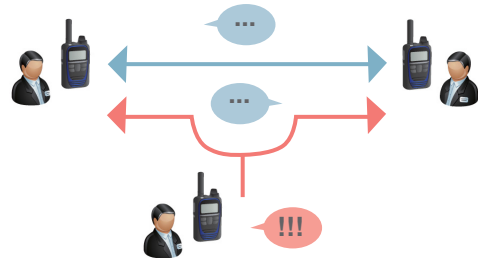
SECURE / CLOSED SYSTEM

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.



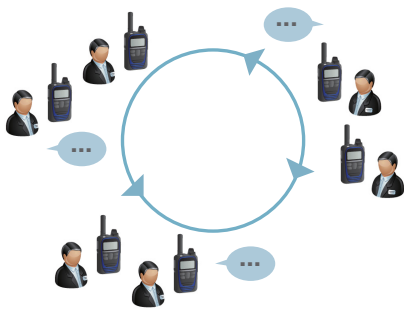
PRIORITY

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.



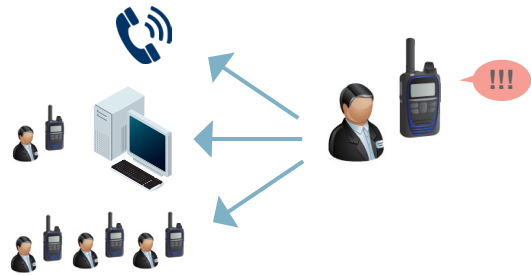
CONFERENCE CALL

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



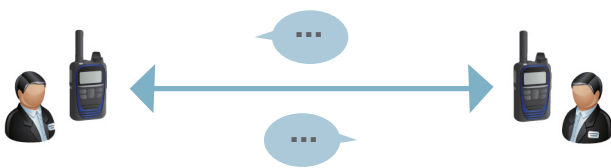
EMERGENCY FEATURES

The IP501H PoC 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.



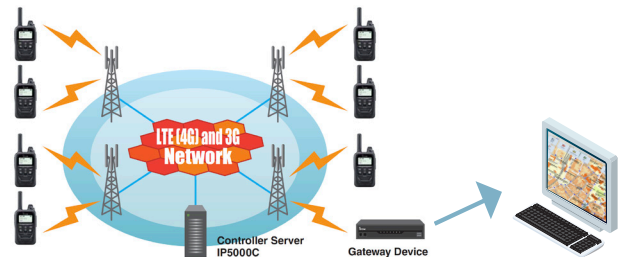
FULL DUPLEX / HANDS FREE COMMUNICATIONS

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



GPS POSITIONING

Thanks to built-in GPS in the IP501H 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 network today covers almost 100% of the UK population, which is a total contrast to traditional radio system where there may be a lack of coverage.



ACCESSORIES

UNIVERSAL KIT - BUILD YOUR OWN SOLUTION

1 Your radio:

With the universal solutions connected to your radio, you can select the headset solution you want to use.

2 Select PTT solution:

Choose from different PTT solutions. Do you want a rugged PTT/box or a wireless PTT adapter for extra flexibility.

3 Select Headset Solution:

Choose from a variety of compatible audio accessories. The flexibility of the system allows you to have different solutions depending on the job you are doing.

1 Radio

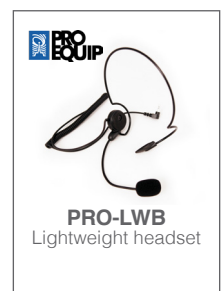
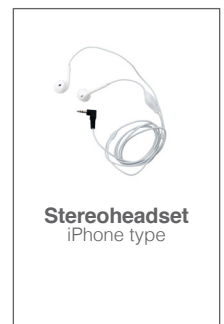
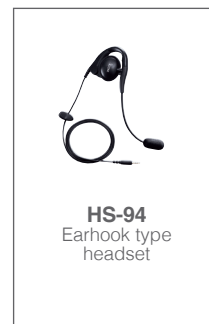
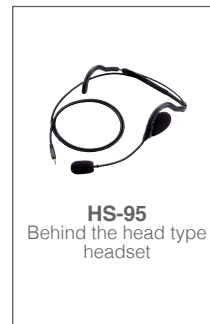
Ideal for lighter operations!



2 PTT



3 Headset (2.5 mm 3-socket)



1 Radio

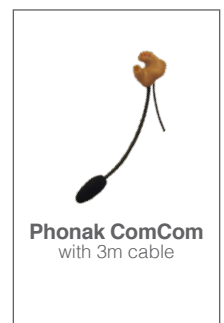
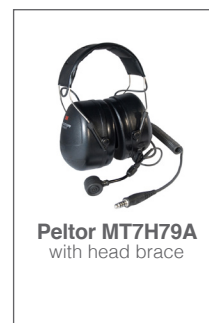
Suitable for heavier operations!





















2 PTT



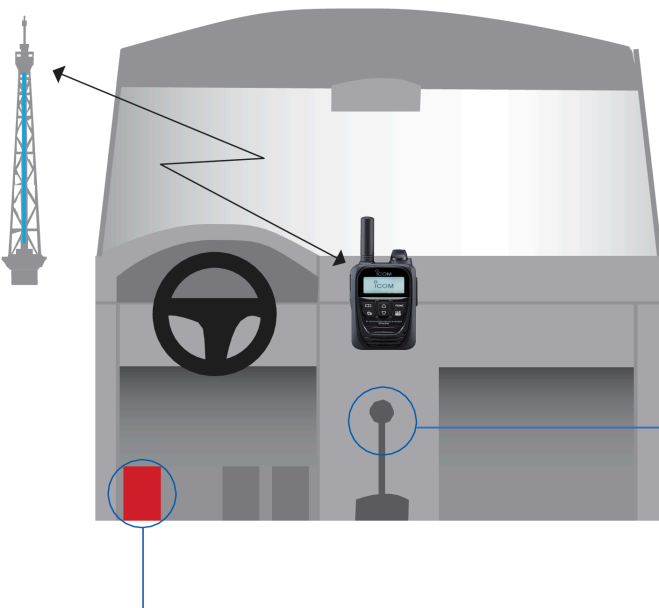
3 Headset (Nexus 4-pin contact)



ACCESSORIES

 <p>BC-202 Desktop charger</p>	 <p>BC-218 Charger cradle with Bluetooth function</p>	 <p>BC-211 6 way multi charger including AD-127</p>	 <p>MB-IP100H Passive mobile holder</p>	 <p>BP-271 Rechargeable Li-ion battery pack 1150/1200 mAh (min./typ.) IP67 waterproof</p>	 <p>BP-272 Rechargeable Li-ion battery pack 1880/2000 mAh (min./typ.) IP67 waterproof</p>
 <p>PRO-EQUIP PRO-P240LP Headset mic / PTT with 80 cm cord, white</p>	 <p>PRO-EQUIP PRO-P240LP Headset mic / PTT with 80 cm cord, black</p>	 <p>PRO-EQUIP PRO-P220LP Air hose, mini-PTT, transmitting switched function</p>	 <p>PRO-EQUIP PRO-AT35L Acoustic air tube, fabric-line, 3.5mm jack</p>	 <p>PRO-EQUIP EarFly Insert 3 pairs, left / right (S, M, L)</p>	 <p>PRO-EQUIP Open Ear Insert 3 pairs, left / right (S, M, L)</p>
 <p>MB-IP501H Active holder with cigarette plug</p>	 <p>MB-135 Belt clip</p>	 <p>HM-215 Speaker-microphone for BC-218</p>	 <p>Adapter Cable Adapter Cable for Peltor Nexus plug, VOX</p>	 <p>MBA-7 Bracket adapter for BC-218</p>	 <p>Leather Case Leather case For IP501H</p>

Three scenarios for using the IP501H in your vehicle



1 Connect the radio to a Peltor WS headset and get a unique and highly effective solution, where you can easily send the PTT button on the cover.



2 Connect the PoC Radio to the specially designed BT540 lightweight headset. For those who do not want a noise-reducing headset. The BT540 also supports the unique PTT protocol that allows you to send with the PTT button on the headset



3 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.



PTT on the lever



foot PTT


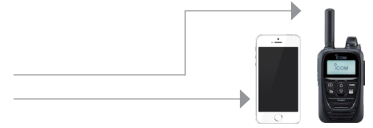


BLUETOOTH®

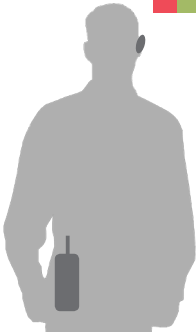


BLUETOOTH® ACCESSORIES

The BT-540 and BT-560 Bluetooth headsets allow you to easily control features of your radio or smartphone. They feature volume control, USB charging, high sensitivity microphone, and Bluetooth PTT support.




PRO-BT540 headset
Bluetooth® mini headset including charging cable



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-C30L
D-Shell, adjustable bracket behind the ear, 3.5 mm connector



Adapter for Peltor Nexus headset. Male, 3.5 mm connector



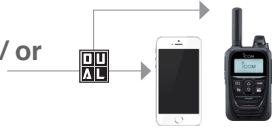
PRO-AT35L
Air line Fabric line, 3.5mm connector



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.

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.

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-C30L D-Shell, adjustable bracket behind the ear, 3.5 mm connector</p>
<p>Adapter for Peltor Nexus headset. Male, 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>	

Dispatcher Manager, (Coming Soon!)

Our PoC Dispatcher Manager will allow you to monitor and keep in touch with your team from a PC. It will also log and store a recording of all radio traffic.



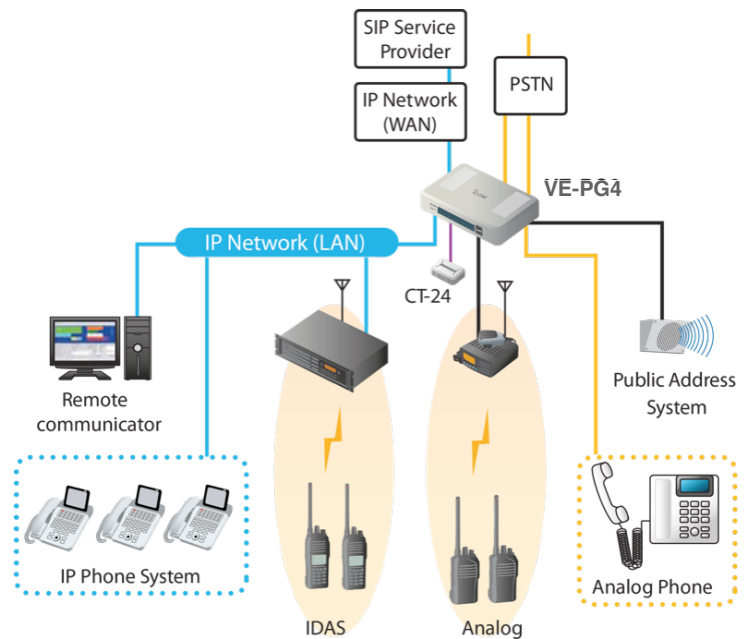
VE-PG4

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.

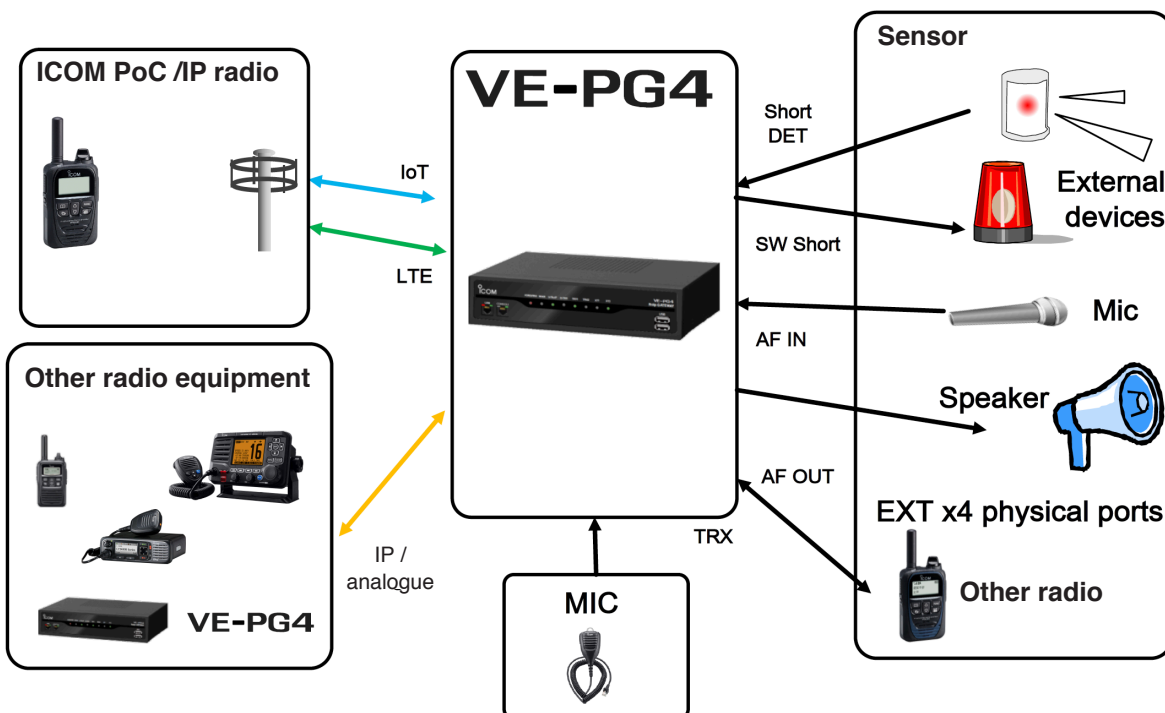
Converter Mode

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
- PoC Radio System
- Digital IDAS radio site



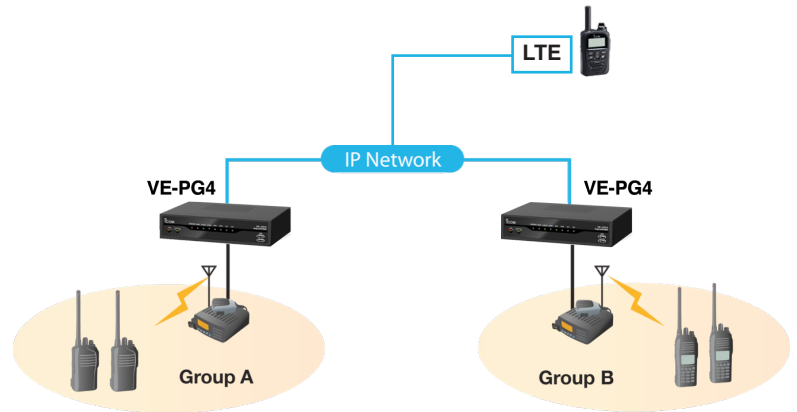
VE-PG4 CONNECTIONS





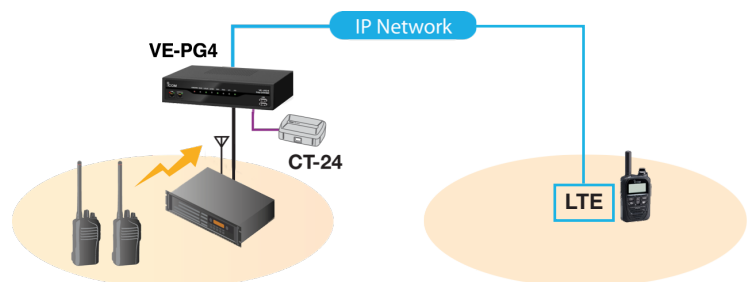
Bridge mode between two radio systems

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.



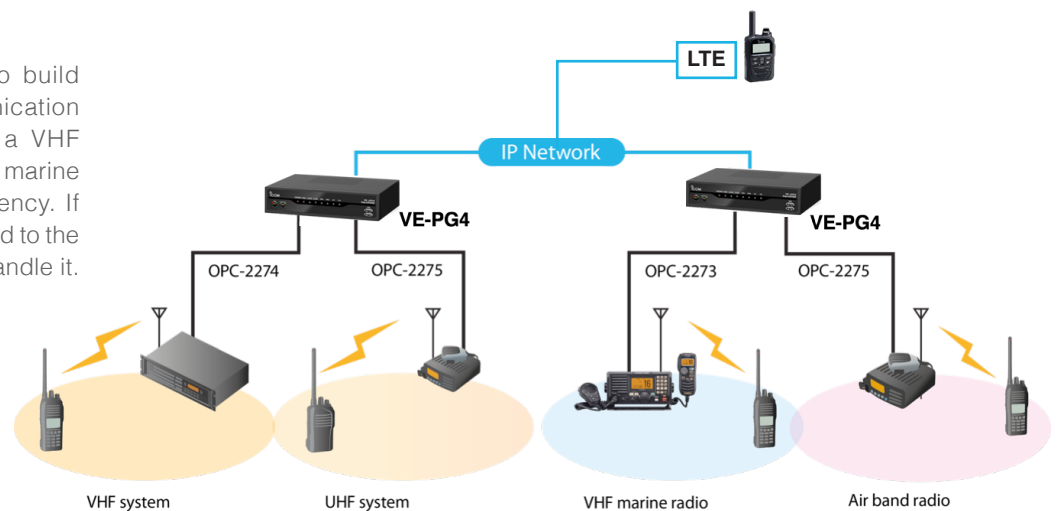
Bridge position between two sites

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.



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.





ICOM UK LTD

Based in Kent and formed in 1974, Icom UK supplies the business, maritime, aviation and Amateur radio market places with high quality two way radio communication products and solutions throughout the UK and Southern Ireland..

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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