

Information about ICOM Network Gateway VOIP System and Links

VE-PG4 Description

The VE-PG4 Gateway has four analogue ports available for connection of up to four transceivers per VE-PG4.

These transceivers can be individually controlled remotely by the IP100FS software, albeit transmit and receive operations. A mixture of four VHF or UHF transceivers can be connected to each VE-PG4.

Additionally to the VE-PG4 the OPC-2275 interconnect cable is required to connect each IC-A120E transceiver. If the Icom LTE connection is deployed for linking then an Icom SIM card and LTE access plan is also required.

4G/5G/Starlink/Fibre internet Connection

(assuming connection through a non-VPN capable 4G/5G router, Starlink connection, or Fibre internet connection)

Fundamentally the VE-PG4's requires a fixed public IP address to link to one-another and does not have the ability to connect through DNS or DDNS.

If fixed public IP addresses are not available then the setup requires an additional 3rd party router at each VE-PG4 Gateway to provide a VPN with the capability to steer connection through DDNS services.

For security, the VE-PG4 has the provision for IP Sec encryption in forming an IP tunneled VPN between VE-PG4's but fixed public IP addresses are necessary at each end to operate.

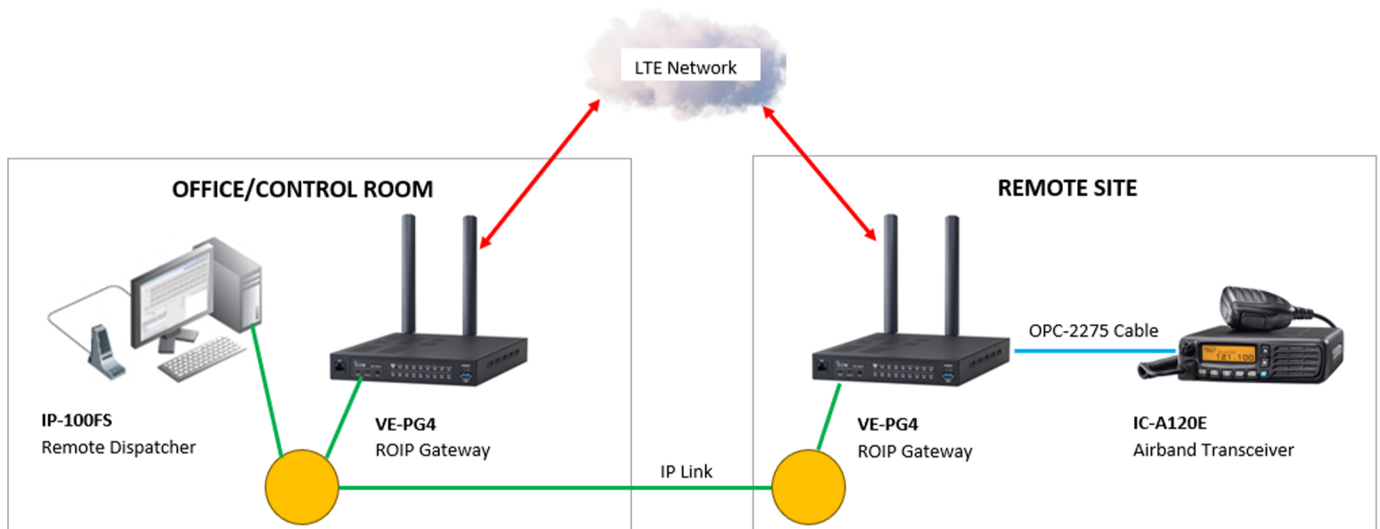
Icom 4G LTE Connection

The VE-PG4's can be linked through the Telstra 4G LTE mobile network. The interconnection is made through the Icom Australia (Amazon hosted) cloud based server and requires our specifically configured SIM card for connection. When our LTE link is used to connect the VE-PG4's fixed public IP addresses are not required but Telstra mobile network coverage must be available.

Sim Card Subscription

Regarding the sim cards, these are an ongoing monthly cost of \$30 per site. Sim cards are supplied by Icom Australia.

Flight Store would put this on a subscription, quote preferred monthly, quarterly or annual billing ? Annual billing does have a small discount.



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Antennas / Base Station Equipment

Icom IC-A120E Airband VHF Transceiver Base Station Kit

Everything you need to set up a base station using the IC-A120E Airband VHF Transceiver.

Comes with the IC-A120E Radio, 240V to 12V Power Supply, A120E mounting kit, microphone and a 1.45 meter Ground Independent Coaxial Dipole Fibreglass Base Antenna. All the cables and mounting hardware are supplied including a 10 meter antenna cable.

Supplied in the Base Station Kit

IC-A120E VHF Air Band Transceiver

Base Station Cabinet for A120

HM-216 Hand Microphone

SEC-1212 Power Supply

M1CDB124 Base Station VHF Fibreglass Antenna Kit

Antenna

The M1CDB124 is a 1.45 meter Ground Independent Coaxial Dipole Fibreglass Base Antenna that has a 150mm x 20mm diameter stainless steel base tube for mast mounting. The antenna is supplied with a 500mm Coaxial pigtail featuring a waterproof FME Male Connector. Included in the kit is a 10m feed cable with waterproof FME Female Connectors on both ends. There are 2 types of FME adapters supplied for connection to either a handheld VHF radio or a base station VHF transceiver.

The Antenna kit comes with 10 meter cables as standard, other wise we can supply longer cables if required (please advise if 10 meters won't be long enough).

The Antenna kit includes a 10 meter cable with connections for PLU259 to connect directly to IC-A120 and use a set worm drive hose clamps for mast/pole mounting. For best performance you want to get the antenna positioned as high as possible/practical.

Base Station Power Supply

The base station power supply is 240v converter that is filtered to stop interference.

The SEC-1212 13.8 V 10A switch-mode DC power supply was designed specifically for use with ground base station and mobile radio.

This power supply produces clean reliable power and is highly filtered to suppress Radio Frequency Interference (RFI). Comes with a detachable AU/ANZ mains power supply cord with IEC plug and includes over-current, short-circuit and over voltage protection.

Links and Attachments

Icom IC-A120 Base Station Link

<https://www.flightstore.com.au/icom-ic-a120e-airband-vhf-base-station-kit>

Icom VE-PG4 RoIP Gateway Link - (Further links in Blue at bottom of Listing)

<https://www.flightstore.com.au/icom-ve-pg4-roip-network-gateway>

Icom OPC-2275 Connection Cable Link

<https://www.flightstore.com.au/icom-opc-2275-connection-cable-to-ve-pg4>

Dispatcher Software Link

<https://www.flightstore.com.au/icom-ip100fs-usb-dongle-dispatcher-software>

Icom LTE Sim Card Link

<https://www.flightstore.com.au/icom-lte-sim-card-for-ve-pg4-gateway-annual-subscription>

