



# VE-PG4

RoIP GATEWAY

## Radio Gateway — Link LMR Radios, LTE Radios, IP Radios, IP Phone Systems and More





# Ensures Cooperative Information Sharing Across Systems and Devices

The VE-PG4 is a versatile RoIP (Radio over IP network) gateway unit, which seamlessly interconnects LMR radios, LTE radios, IP communication terminals, IP phone systems and external devices. In addition to the IP Network (LAN/WAN), the built-in LTE module\* provides virtually nationwide communication coverage.

\* Service availability depends on the country. Network coverage provided by a custom SIM card.

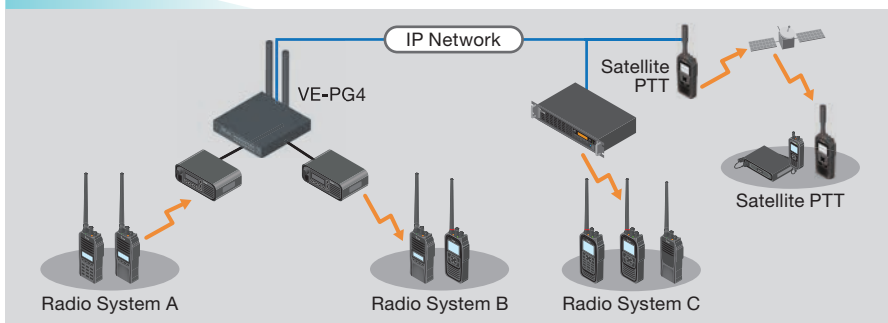


## Communication Links



RoIP GATEWAY  
**VE-PG4**

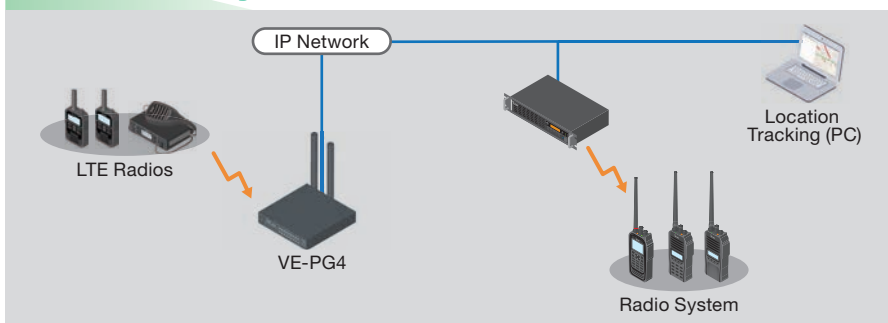
## Radio Integration : Bridge Radio Groups for Seamless Communication Across Different Systems



The RoIP gateway, VE-PG4, connects multiple radio groups, even if they use different frequencies and types of radio systems. It automatically shares audio between groups, enabling users to communicate effortlessly across connected groups. Whether it's analog, digital, VHF marine, VHF airband, or satellite PTT radios, the VE-PG4 bridges them all for unified communication.

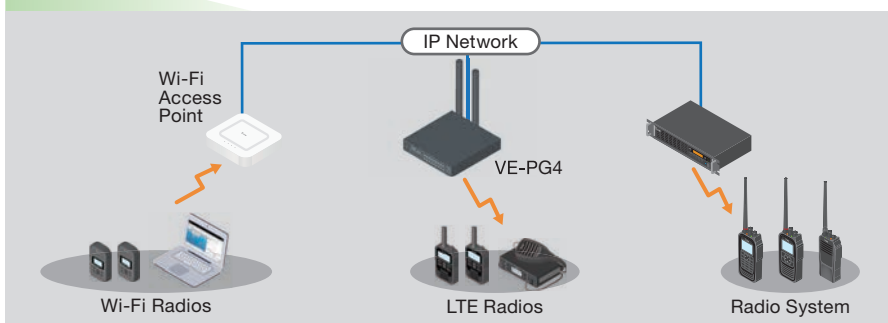
\* Cross band/cross category operation may be prohibited in some countries. Please check the legal requirements in your country before installation.

## LTE Gateway : Combine LTE Radios with IDAS™ Digital Radio Groups for Extended Coverage



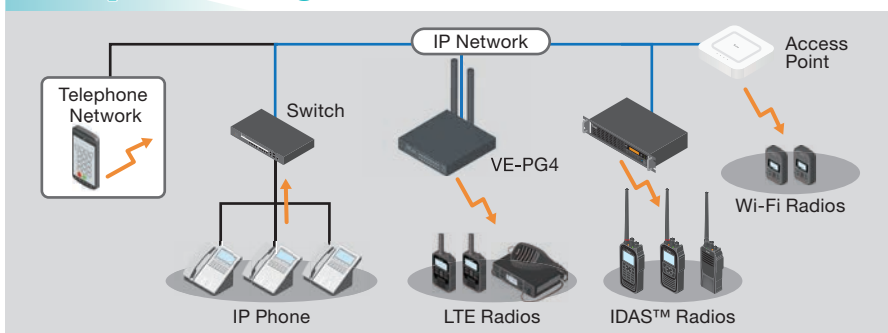
The VE-PG4 connects LTE radios to IDAS™ digital radio groups, enabling seamless individual and group calls between both systems. With its built-in LTE module and a custom SIM card, the VE-PG4 connects directly to LTE radio groups. It can also link to an IDAS™ repeater via an IP network for extended coverage.

## Wi-Fi Radio Controller : Flexible Wi-Fi Radio Communication with IDAS™/LTE Radio Groups



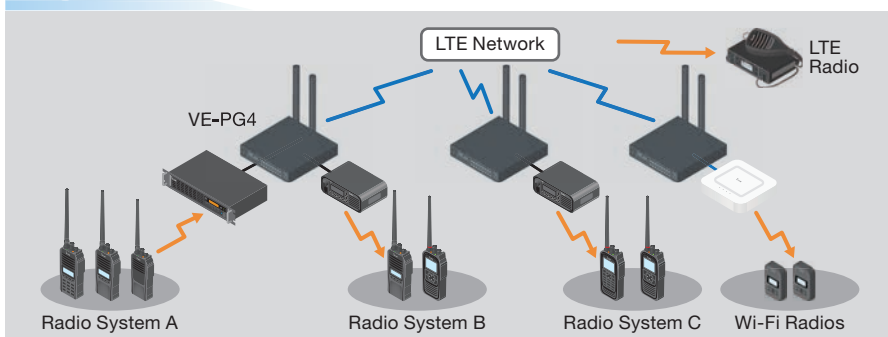
The VE-PG4 enables Wi-Fi radios to connect through Wi-Fi access points along an IP network. With its built-in controller, the VE-PG4 can manage up to 50 Wi-Fi radios, such as IP110H and IP100FS. If needed, the Wi-Fi radios can also connect to an IDAS™ digital radio or an LTE radio group, allowing individual and group calls between Wi-Fi and IDAS™ digital/LTE radios.

## Telephone Integration : IDAS™ Digital, Wi-Fi and LTE Radios Make Calls with Telephone Network



The VE-PG4 includes a built-in simple SIP server for direct connection to telephone networks. IDAS™ digital radio users can make phone calls, and internal or external callers can reach specific IDAS™ radio, Wi-Fi and LTE users directly. Improve connectivity across different communication platforms.

## System Expansion : Connecting Multiple Gateways Over an LTE Network for Flexible Expansion



The VE-PG4 can connect to other units over an LTE network using its remote access feature, eliminating the need for additional networking infrastructure. This allows for flexible expansion of communication coverage, enabling dispersed radio groups to connect seamlessly, regardless of distance or the type of radio system used.

## Other Features

- Integration with public address system for broad announcement and alert capabilities
- RoIP, SIP gateway, IP router, IP PBX – all in one package
- Call recording to a USB flash drive
- Microphone connection for base operation
- Serial pass-through function
- Router functions with VPN tunnel
- Half-width 1U form design
- Online firmware update
- SYSLOG, SNMP, SSH and other management features
- Administrator password and security slot

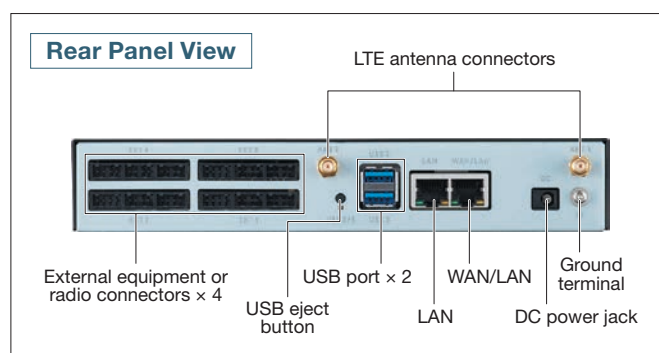
## SPECIFICATIONS

GENERAL		
Power supply		12 V DC $\pm 10\%$ , 4 A maximum 100–240 V AC (with the supplied AC adaptor)
Operating temperature range		0 to +40°C, +32 to +104°F
Operating humidity		5–95% (At no condensation)
Dimensions (WxHxD) (Projections are not included)		213 x 36.8 x 270 mm, 8.4 x 1.4 x 10.6 in (Approximate)
Weight		1.8 kg, 4 lb (Main unit, approximate)
Regulatory compliance		FCC Part 15 Class B/ICES003, Part22, Part24, Part27, EN301 489-1, EN301 489-19, EN301 489-52, EN301 908-1, EN301 908-2, EN301 908-13, EN303 413, EN62479, EN62311, EN62368-1
INTERFACE		
LAN/WAN		RJ-45 type x 1 (Auto MDI/MDI-X) 10BASE-T/100BASE-TX/1000BASE-T *WAN/LAN port selectable.
LAN		RJ-45 type x 1 (Auto MDI/MDI-X) 10BASE-T/100BASE-TX/1000BASE-T
USB	Host interface	USB 3.0 Standard A receptacles x3
	Console interface	USB 2.0 mini B receptacles x1
Network*	4G bands:	LTE B1, B3, B7, B8, B20 (EUR) LTE B2, B4, B12 (FCC)
	3G bands:	W-CDMA B1, B8 (EUR) W-CDMA B2, B5 (FCC)
External port	Connectors	2.54 mm (0.1 in) pitch quick connector (4 terminals x3) x4
	Audio input	–10 dBs/–40 dBs selectable Input impedance 10 k $\Omega$ unbalance
	Audio output	0 dBs/–20 dBs selectable 600 $\Omega$ load unbalance/8 $\Omega$ 1 W speaker
	Control input	Low voltage contacts (3.3 V DC/ 1 mA)/ Voltage input (3–16 V)
	Control output	No voltage contacts (30 V/ 100 mA)/ Open collector (3–16 V 10 mA)

All stated specifications are subject to change without notice or obligation.  
\* Service availability depends on the country. Network coverage provided by a custom SIM card.

### Supplied Accessories

- Antennas
- BC-236, AC adapter
- Antenna bases with 1.5m (4.9 ft) cable
- Quick connectors



## OPTIONAL ACCESSORIES

Audio Connection Cables		Compatible Models
<b>OPC-2390</b> 	D-SUB 25-pin 5 m, 16.4 ft	IC-FR5300, FR5000 series  IC-F5330D, F5130D series OPC-2078 required separately
<b>OPC-2275</b> 	RJ-45 modular plug connector 5 m, 16.4 ft	IC-A120/E, IC-F5060 series
<b>OPC-2273</b> 	Waterproof 8-pin connector 5 m, 16.4 ft	IC-M605/EURO
<b>OPC-2412</b> 	14-pin accessory connector 5 m, 16.4 ft	IC-SAT100
<b>OPC-2276</b> 	External microphone and speaker 5 m, 16.4 ft	HM-241, HM-152, HM-216, HM-152T, SM-26
<b>OPC-2389</b> 	RS-232 connector 5 m, 16.4 ft	External serial device

**Speaker-Microphone**  
**HM-241**

**19-inch Rack Mounting Bracket**  
**MBF-6**

**Remote Communicator**  
**RC-FS10 (#25)**

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