Version 1.0

May 2018

LTE
RADIO SYSTEM
FAQ

PREFACE

Preface
This document is designed to answer common questions about the LTE RADIO SYSTEM IP501H. For further reference, refer to their Instruction manuals, catalogues or other related documents.
This document is based on the firmware version 1.06 for the IP501H. Visit the ICOM Support page http://www.icom.co.jp/world/support/ to get the latest firmware and update history.

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Document history

Version	Date	Description
1.0	May 2018	First release by Icom Australia

TABLE OF CONTENTS

QUESTIONS

QUESTIONS AND ANSWERS

About the IP501H

Q1. How many call destinations (Individual, Group and Telephone) are configurable?
A1. One IP501H can have up to 500 call destinations (including Individual, Group, and Talkgroup) in its ID list.

Q2. How many terminals (IP501H) can run in a system?
A2. The IP501H system are being run by our cloud controllers. Each controller can handle up to a maximum of 2000 terminals.

Q3. Which call types are supported?
A3. Individual call, Group call, Talkgroup call, and All call

Q4. Is the Emergency function like LMR available?
A4. Yes, Emergency Call (by key, lone worker and man down) can be made

Q5. What about security for the IP501H?
A5. The IP501H are connected to the 3G/LTE network through our private network. The closed network is uniquely constructed by our carrier for our very own service. Direct access from the internet is disabled and servers and controllers are located in secured cloud space and only accessible by Icom administrators.

Q6. What about the type of communication protocol?
A6. Wireless standard: LTE-FDD (4G), WCDMA (3G), Voice codec: G.726, Network packet control: Icom proprietary protocol

Q7. What are the different types of call features?
A7. Call features will include Simplex/Duplex, One-Touch PTT, Call type function (All, Group, TalkGroup, Individual) and Call priority

Q8. What about the short text messaging feature for IP501H?
A8. One IP501H can have up to 10 pre-configured short text messages (32 characters)

Q9. Is it possible to change settings of terminals and configure talk groups?
A9. Yes, it can be done by an Icom representative or an authorized Icom dealer/distributor

Q10. Does all traffic go through the controller?
A10. Yes, via the 3G/4G network the traffic are sent to our controller system then delivers them out to all destinations

Q11. Is there any way to have redundancy for the IP501H system?
A11. As we rely on the carrier's 3G and LTE network we are fully dependent in their redundancy and resiliency network platform, nevertheless we also have resiliency features with our controllers in place.

Q12. Is it possible to interface to analogue, digital and IP radios?
A12. Full system integration to multiple technology/protocol such as LMR, IDAS, analogue audio, SIP phone, IP100H or GPS data can be done by using *VE-PG4 (estimated release later part of 2018)

Q13. What about GPS and location service?
A13. The IP501H has a built-in GPS unit but location or tracking service is still in the pipeline

Q14. If I buy IP501H from overseas is it possible to use in Australia?
A14. IP501H terminals are specifically designed and manufactured depending on the region or country’s service availability, specifications and regulations. Hence, units bought overseas might

have chipsets only designed to work on certain spectrum and bandwidth frequencies which may differ on what we have in Australia.

About Icom IP501H data plan

Q1. What is “Icom data plan” and why it is necessary?
A1. Just like how your mobile phone connects to the 3G/4G network, the Icom data plan lets you talk and send pre-defined text messages using the mobile network. It also provides you with Icom managed radio communication service and cloud controller management.

Q2. Is it possible to use my own SIM cards?
A2. No. It is completely different from your regular smart phone’s sim card as the IP501H provides other features for consumers like an Emergency button, Man down and Lone worker functions. The chipset is being programmed to act and respond to services and functions that can only be found in our IP501H range.

Q3. Is it possible to use IP501H overseas with international roaming?
A3. No, our data plan does not include international roaming and the IP501H can only be locally used.

Q4. Which network carrier is available?
A4. At present, our IP501H range is using Optus network. We are working closely with Telstra representative for future plans and production.