



IP Command Center - Product Specification

- Lobby or Machine Room Base Station (Command Center), Machine Room Stations (2300-630RC), Power Supply w/UPS and Elevator Phones (SmartPhones)

Part 1 - General

1.0 Summary

- 1.1 The IP Command Center is to be located at a central control point in the lobby or machine room as indicated by the local authority having jurisdiction. RATH® In Car Analog with Remote Interface or In Car IP Elevator Phones are to be located in each elevator either behind the COP, flush mounted to panel face, or in an existing phone box. Remote interface is to be mounted in machine room or other location with access to the Network.
- 1.2 The IP Command Center must be capable of handling a minimum of 128 RATH® IP Elevator Phones. Visual indicators on the IP Command Center allow rescue personnel to know which IP Elevator Phone needs assistance. The IP Command Center must allow rescue personnel to speak to individual IP Elevator Phones.
- 1.3 The emergency communication hardware shall comply with the Americans with Disabilities Act (ADA). The IP Elevator Phones shall have the ability to be programmed with up to 2 emergency phone numbers (IP Command Center counts as first number if dialing this unit first). Upon activation of the emergency push button, a call will be automatically placed to the IP Command Center. If no one answers at the IP Command Center, the IP Elevator Phone must dial a secondary location outside the building to activate **two-way off-site person to person voice communications**.
- 1.4 The IP Base Station must allow calls out on analog, digital, cellular or VoIP communication lines.

2.0 Submittals

- 1.1 Submit product data sheets. Include operation manuals.
- 1.2 Wiring or shop diagrams detailing wiring schematics, cabling.

3.0 Construction

- 3.1 The IP Command Center (2500 series) shall include both the Base Station and Distribution Module. The Base Station must have a powder coated steel housing (surface or flush mount) or be desk mounted, include a black handset with coil cord, and be powered from the Distribution Module.
- 3.2 The Distribution Module must be a surface mount enclosure, include connections for 1 up to 128 IP Elevator Phones and/or IP Machine Room Phones and power the Base Station. The Distribution Module shall be powered from 120vac power with a battery backup that provides power for a minimum of 4 hours (RATH® RP7700104).
- 3.3 The IP Elevator Phones (models 2100) must be in full compliance with Americans with Disabilities ACT (ADA). Elevator Phones require a hands-free speakerphone with an LED to indicate status of call.

- 3.4 The IP Elevator Phones must allow the programming in of a specific voice message indicating the location of the elevator.
- 3.5 The IP Elevator Phones must be programmable to check the status of the incoming telephone line every 10 minutes up to every 23 hours. Upon failure to detect an active telephone line the Elevator Phone must provide a relay contact to an Annunciator Device (2100-ALARM) located at the designated landing in the vicinity of the “fire recall switch”.
- 3.6 The IP Command Center requires a 2500-MONITOR to check the incoming telephone lines. The 2500-MONITOR must be programmable to check the status of the incoming telephone line every 10 minutes up to every 23 hours. Upon failure to detect an active telephone line the 2500-MONITOR must provide a relay contact to an Annunciator Device (2100-ALARM) located at the designated landing in the vicinity of the “fire recall switch”.
- 3.7 The IP Command Center must provide an audible and visual indicator that an IP Elevator Phone has been activated.
- 3.8 The RATH® 120vac Power Supply model RP7700104 must be capable of supplying power to all Base Stations and the Distribution Module.

4.0 Mounting

- 4.1 The IP Command Center is to be surface mounted, flush mounted, or a desk top.
- 4.2 IP Elevator Phones are to be mounted behind the COP, flush mounted to panel face, or in an existing phone box.

5.0 Electrical

- 5.1 The IP Command Center is to be powered by the Distribution Module. The IP Command Center and IP elevator phones are to be powered by PoE at 802.3af.
- 5.2 The Distribution Module shall be powered by the RATH® model RP7700104 Power Supply. It shall require 120vac power and provide battery backup capable of providing a minimum of 4 hours of electrical backup in case of building power failure.
- 5.3 The Base Station shall connect to the Distribution Module with a single wire pair (10 zone), two wire pairs (16-64 zone) or three wire pairs (80-128).
- 5.4 Each IP Elevator Phone or Remote Interface (used with In Car Analog and 2300-630RC Machine Room Phones) shall connect to the Distribution Module through an Ethernet connection. Maximum run is 300’ between Network Switches.
- 5.5 System shall be in compliance with all state and local electrical codes.

6.0 Communications

- 6.1 The IP Elevator Phones shall be an ADA compliant and vandal resistant speakerphone.
- 6.2 The IP Elevator Phones shall be hands-free and be a push-button-once to talk system. Once the button has been pushed, the IP Elevator Phone will call the Base Station. If no answer at the Base Station, it

will automatically call pre-programmed emergency numbers. The IP Elevator Phone must be capable of being programmed with up to 2 emergency numbers (Base Station counts as first number).

- 6.3 IP Elevator Phones shall have location message capability. IP Elevator Phones must include a minimum 18 second recordable message, programmable to play 1 or 2 times. IP Elevator Phones shall notify called party of the location of the elevator upon receipt of call.
- 6.4 IP Elevator Phones shall be capable of allowing the called party to replay the location message if necessary to ensure an understanding of the elevator location.
- 6.5 If the building location does not have a 24/7 attendant on duty, the IP Elevator Phone must dial a location outside the building to activate **two-way off-site person to person voice communications**.
- 6.6 Once call has been made (button pushed), the call can only be terminated by the called party.
- 6.7 IP Elevator Phones must have a red LED that will light up upon push of the button. The light shall be a solid color when the Elevator Phone is activated, and will flash when call has been answered.
- 6.8 The IP Base Station must allow calls out on analog, digital, cellular, or VoIP communication lines.
- 6.9 Standard IP Base Station features:
 - 6.9.1 Flush, surface, or desk mount
 - 6.9.2 Operating temperature of between -40°F to +150°F (-40° to + 65° C)
 - 6.9.3 Individual elevator call
 - 6.9.4 Battery backup (minimum of 4 hours) (RATH® RP7700104)
 - 6.9.5 Standard analog telephone line input
 - 6.9.6 IP phone line input (with 2100-VOIP)
 - 6.9.7 Ability to act as intercom (no phone line required)
- 6.10 Standard IP Elevator Phone features:
 - 6.10.1 Two number programming
 - 6.10.2 Operating temperature of between -40°F to +150°F (-40° to + 65° C)
 - 6.10.3 Location message
 - 6.10.4 Telephone line verification (Remote Interface only model 2100-VOIPLC)
 - 6.10.5 Battery backup (minimum of 4 hours)
 - 6.10.6 On-site or remote programmable
 - 6.10.7 In car IP: PoE powered at 802.3af (from a backed up Network) or 12v battery backed up power source
 - 6.10.8 In car analog powered by 120v or 24v power
 - 6.10.9 Remote Interface (2100-VOIP) requires 120v battery backed up power or PoE powered at 802.3af (from a backed up Network) (2100-VOIPPOE)
 - 6.10.10 EEPROM memory to protect programming

7.0 Graphics

- 7.1 The IP Command Center must include wording identifying the location of each IP Elevator Phone and light an LED when a particular IP Elevator Phone has been activated.

7.2 IP Elevator Phone wording must include “Emergency Phone”, the International Phone Symbol, and raised Braille lettering.

8.0 Product Substitutions

8.1 No substitutions.

9.0 Warranty

9.1 The IP Command Center and IP Elevator Phones shall be warranted for a period of three years.

10.0 Manufacturer

The manufacturer shall be:
RATH® Microtech
N56W24720 North Corporate Circle
Sussex, WI 53089
www.rathmicrotech.com