

RP-102E

Repeater



Description: The RP-102E Repeater relays signals from wireless call station devices back to the inform Nurse Call System. Each RP-102E Repeater signal covers roughly 150ft., with the repeater in the middle. Strategically locate repeaters to provide full signal coverage within an area or building. The RP-102E repeaters facilitate communication between wireless nurse call stations and the main server computer / software.

Operation: Signals from wireless patient stations are transmitted through the RP-102E Repeater(s) to the central Network Coordinator, which transmits data to the inform server computer.

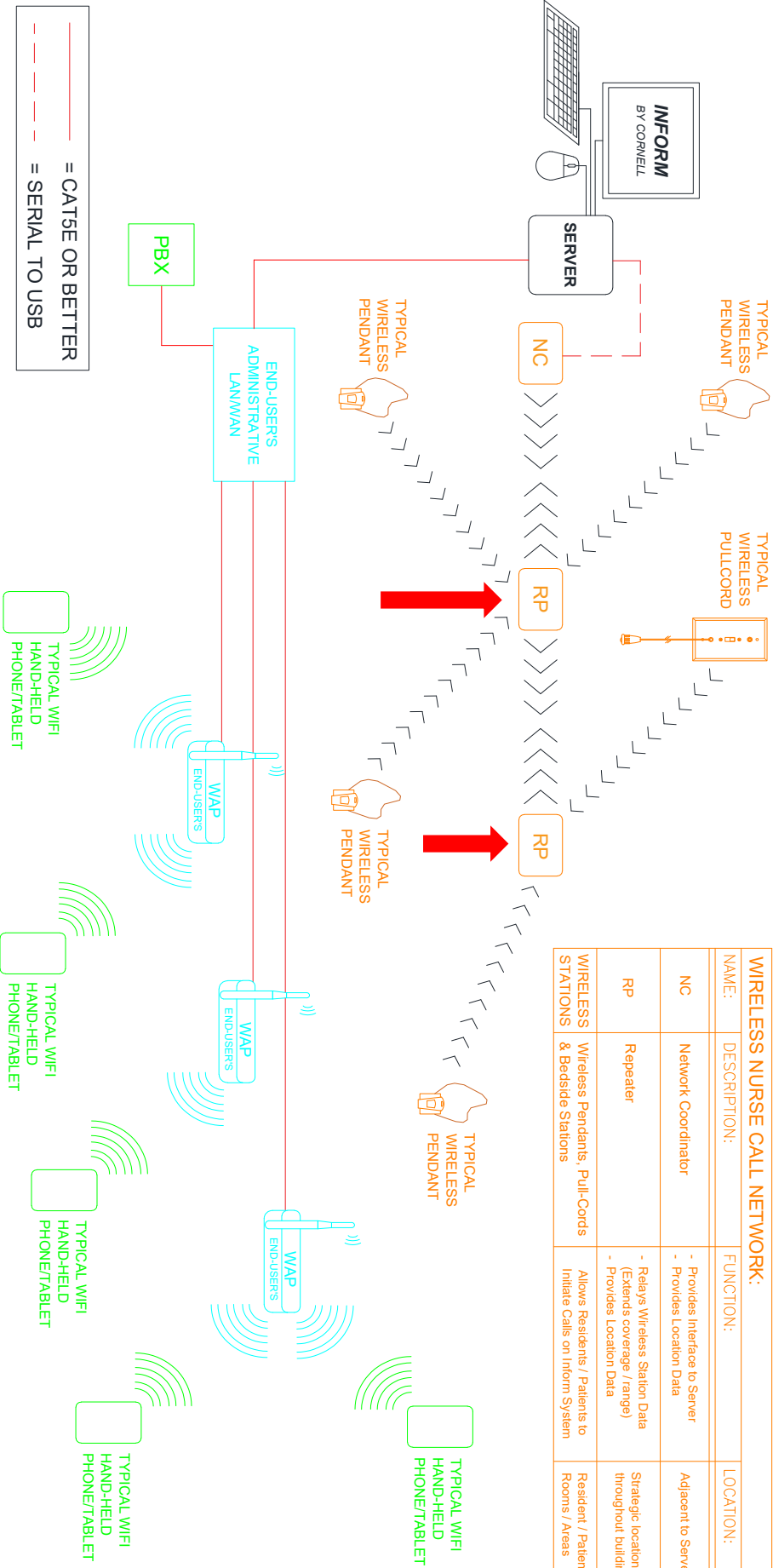
Mounting: Includes a mounting bracket for wall-mounting the device. It can be installed above a ceiling in strategic locations to provide signal coverage for the wireless devices it serves.

Engineering Specifications: The contractor shall furnish and install the CORNELL RP-102E Repeater(s) as indicated on the plans. Tamper-protected cases allow for supervision or device monitoring. No programming needed. The device is self-configuring. No limit on the number of repeaters allows scaling for small or large installations. Supervision of Low Battery, Case Tamper, Back Tamper, jam detection, and loss of line power.

Technical Information:

- Power Requirements: 120VAC transformer included (14VAC, 250mA)
- UL Operating Temperature: 32°F ~ 140°F (0 to 60°C)
- Non-UL Operating Temperature: -4°F ~ 140°F
- Operating Environment: 0%-90% Non-condensing relative humidity
- Physical Dimensions: 6.5"W × 3.6"H × 1.0"D
- Weight: 7.14oz.
- Interface: 10/100 Base-T Ethernet port
- Transmit Frequency: 902-928 MHz
- Backup Battery: 3250mAh @ 3.6V lithium-ion (included)
- Backup Battery Lifetime: Up to 24 hours (varies depending on the usage)
- UL Listed

WIRELESS NURSE CALL NETWORK:			
NAME:	DESCRIPTION:	FUNCTION:	LOCATION:
NC	Network Coordinator	- Provides Interface to Server - Provides Location Data	Adjacent to Server
RP	Repeater	- Relays Wireless Station Data (Extends coverage / range) - Provides Location Data	Strategic locations throughout building
WIRELESS STATIONS	Wireless Pendants, Pull-Cords	Allows Residents / Patients to Initiate Calls on Inform System	Resident / Patient Rooms / Areas



I.P. NETWORK DATA

NAME:	DESCRIPTION:	FUNCTION:	LOCATION:	DATA / DETAILS:
SERVER	Small form-factor PC / Server with Monitor, Mouse, & Keyboard	- Functional server "Core" of each Inform System - Regulates system operations and maintains data logs	Secured Administrative Location or Network / Telecom Room	- (1) Gigabit Ethernet Port
PBX	Private Branch Exchange - (IP-Based)	- Manages flow of Voice Packets across the Network - Provides Voice Call feature between hand-held clients (with support by specialized Software / Apps)	Typically Adjacent to Server or to a nearby Network Switch	- (2) Ethernet Ports (WAN and LAN) - (4) RJ11 Phone Ports
WAP END-USERS	Wireless Access Point(s) (Provided by End-User)	- Provides "WIFI" within the area each WAP is installed - Network pathway between Phone/Tablet devices and the PBX - Allows for call indication, response and voice functions on Phone or Tablet devices	Strategically placed throughout the building. Typically placed about 80ft apart / 30ft from end-walls.	- WIFI Standards: (2.4GHz Radio) 802.11 b / g / n - Advanced QOS ability - Configurable per user (Data Limiting)
HAND-HELD PHONE / TABLET	- Hand-held clients (iPod Touch / iPad w Apps) - PC with console software - PBX to create phone network	- Used by staff to monitor, take or complete system calls. - Receives assigned notifications (different for each user) - 2-way voice between hand-held devices	Mobile devices carried by staff members (Optional devices at Admin Locations such as a Nurse Desk, etc.)	- Apple devices = Dual-core A5 Processor, 512MB of RAM, 32-64GB Flash Memory. - Hand-held Phone or Tablet options. - Wifi Standard = 802.11n - 2.4 & 5GHz Radios