

AleCh 4.0

IP-Wired Nurse Call Systems



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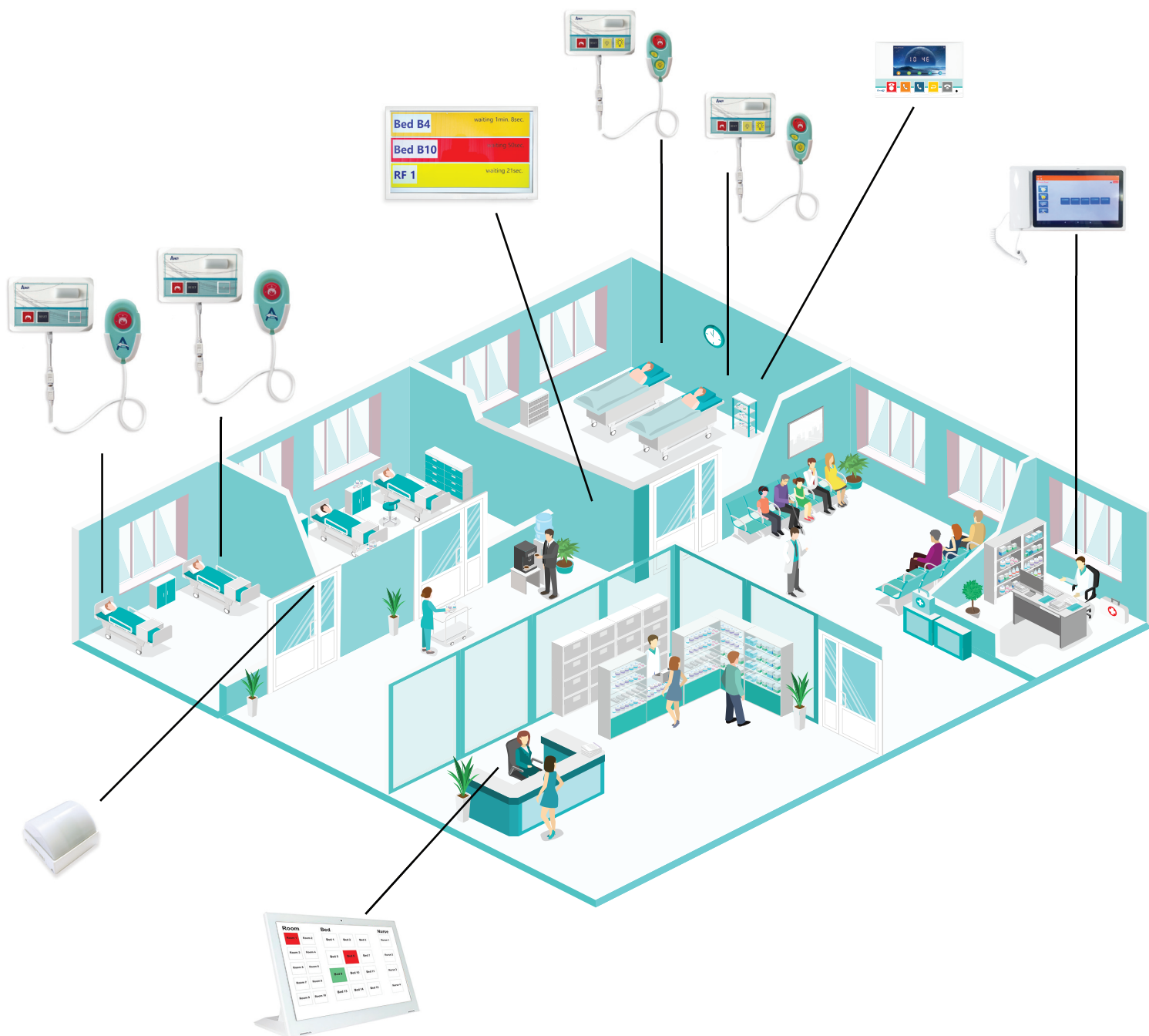


Alecb srl presents a new series of IP-Wired Nurse Call systems intended for healthcare facilities.

The devices are conceived with the most innovative and modern available technologies, easy to install and configure. Made in antimicrobial materials for an improved infection control, designed for a continuous self-monitoring during operation and constructed in compliance with the DIN VDE 0834 standards



Example of Configuration



Complete flexibility of the system that allows to configure it employing different operating technologies: from IP network, BUS, Wi-Fi, IOT, or other wireless technologies.
Possibility of staff position tracking and VoIP voice communication.



Call Management Systems

MT-00

MT-00 - 21" Monitor with mini-server integrated



MT-01

MT-01 - 14" Touch Screen Monitor



MT-00 - 21" Monitor with mini-server integrated

MT-01 - 14" Touch Screen Monitor

Nurse Station call monitor terminal that allows a direct management of the nurse calls inside the hospital ward, the configuration of all incoming calls and the recording both of historical call log and all calling events.

It allows not only the management of patients' calls, but also their conveyance on cell phones through our specific application.

Also, it allows the monitoring of both priority and chronological calls, the centralized management of nurse calls within specific areas by displaying inside a single screen all alarms and events and consents staff to avoid wasting time for the search of health professionals

MT-01

Android operating system

Touch screen and front camera: capacitive touch screen

Dimensions: 349mm x 112mm x 239mm

MT-00

Microsoft Windows operating system

Integrated mini server, for complete management of hospital ward or group of hospital wards

Dimensions: 530mm x 340mm x 50mm

Nurse Management Systems

MT-02B



8" touch screen room terminal

Voice functions with SIP/VoIP protocol

Complete functionality for voice call management that allows room calls with hands-free function for communication between staff and patients or staff and staff; with integrated telephone handset or hands-free mode through wired or WI-FI connection. Prearranged for wall mounting or with desk bracket

Size: 200mm x 210mm x 70mm

Nurse Management Systems

MT-01B



MT-01B Nurse Station terminal with VoIP (voice) communication

VoIP / SIP touch screen TERMINAL

It allows voice communication between the various VoIP terminals of the system, the reception of alarms, the management of all the programming functions of the hospital ward, hands-free communication or communication with a phone terminal, Historical call log and events recording.

It allows not only the management of patients' calls, but also their conveyance on cell phones through our specific application.

Management of voice calls from other devices connected to the local network located in the various rooms

It allows the monitoring of both priority and chronological calls.

It allows the centralized management of nurse calls within specific areas by providing staff with the display of all alarms and events on a single screen and avoiding the waiting for the search for health professionals

Also, it allows the monitoring of both priority and chronological calls, the centralized management of nurse calls within specific areas by displaying inside a single screen all alarms and events and consents staff to avoid wasting time for the search of health professionals

Front camera and touch screen: capacitive touch screen

Technical specifications:

- Front camera
- Capacitive Touch Screen
- Display Resolution: 1920x1080 Dpi
- Speakers: 2x2W
- Dimensions: 34mm x 112mm x 239mm

Room terminals with voice communication

C-03ND



C-02ND

C-03ND C-02ND

Room terminals with Voice functions and SIP / VoIP protocol set with addressable call keys, allow hands-free room calls for communication between staff and patients or staff and staff.

IP Wired or WI-FI connection

- Wi-Fi (2.4G)
- LAN connection
- PoE (Power over ethernet)
- 2W speakers

C-03ND 7" touch screen set with 5 physical keys + 8 on-screen virtual keys

C-02ND 4" touch screen set with 5 physical keys



Digital Monitor

MT-02



- 21" wall-mounted digital monitor with indication of calls in progress and those on hold, complete with bracket.
- Calls will change color and arrangement according to the priority setting.
 - Adaptive call display based on the number of active calls
 - Selection of both ringtone and volume level that can be set for day and night
 - Wi-Fi or LAN connection
 - Dimensions: 520mm x 340mm x 50mm



Led corridor Monitors

MT-03

Single sides

MT-03D

Double sides



MT-03 Single sides

Single sides, LED monochrome display
 Hardware Configuration
 Operating system Based on MCU customization
 Power supply AC 100-240V 50/60Hz
 Power consumption < 50W
 Transfer Protocol TCP UDP
 External interface 220V power supply, RJ45, reset button
 Material Aluminun frame
 Dimensions mm: L762mm x P38mm x H155mm

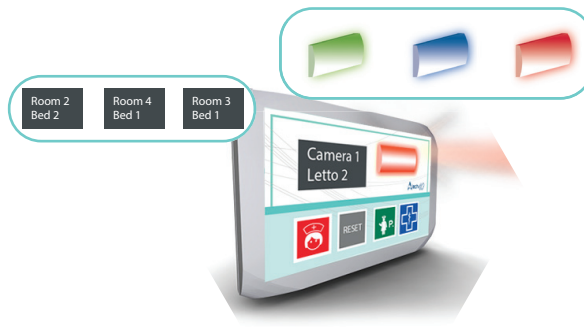
MT-03D Double sides

Double sides, LED monochrome display
 Hardware Configuration
 Operating system Based on MCU customization
 Power supply AC 100-240V 50/60Hz
 Power consumption < 50W
 Transfer Protocol TCP UDP
 External interface 220V power supply, RJ45, reset button
 Material Aluminun frame
 Dimensions mm: L762mm x P38mm x H155mm



C-01ND Room terminal Concentrator

C-01ND



Nurse Call Room Concentrator Terminal

The C-01ND room terminal Concentrator can manage the operation of the whole room with BUS connection in full autonomy, including the out-door warning LED light, in this way the system maintains its autonomy in any situation.

The concentrator is set with a display both with OLED technology and with light and acoustic signaling integrated system fully in compliance with VDE standards, this allows the staff to monitor the situation inside the room in real time, view unanswered calls and any alarm signals, and it also indicates the presence of the nurse inside the room.

Follow me function: when the nurse presence state is active, it alerts the staff within the room regarding other assistance calls generated from other rooms.

Monitor functionality: if correctly set, the Room Concentrator can also work like a monitor to be placed in the corridors, nurse stations, etc.

BLE functionality: it allows to automatically identify the operator's code present inside the room

Room Concentrator Terminal with functions dedicated exclusively to the operator: Reset, Nurse Presence, "Blue Code", emergency call.

All devices are manufactured with antimicrobial materials

- presence activation / reset
- emergency call
- OLED display
- integrated LED light and acoustic alarm
- antimicrobial materials
- "Blue Code" emergency call button
- Coated with antimicrobial material
- Dimensions: 115mm x 74mm x 21mm

Bed Call Terminal multifunctions

WL-01C



PR-L01

Patient's extension handset terminal with light control



PR-L00

Patient's extension handset terminal

Automatic safety release system for accidental tearing of the cable

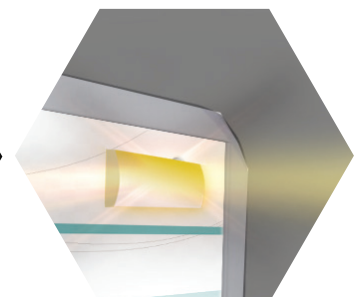
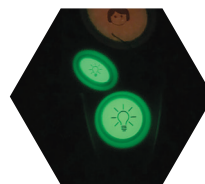


RJ45 connector

Wall mount housing

Bed Call terminal with integrated night light and external light controls, Wall-mounted type, can be wall-mounted inside a standard 3 module electrical box Call, Reset, Nurse Presence, Blue Code Emergency buttons. Integrated courtesy light, RJ45 connection slot for patient's extension handset terminal PR-L00 or PR-L01; it operates with the LT-01-ND intelligent lamp, and it does not require the C-01ND Room Concentrator Terminal.

- Reset and Call buttons
- Integrated courtesy light
- Main light control on the patient's extension handset terminal (PR-L01)
- Automatic safety release system for accidental tearing of the cable with disconnection alarm of the patient's extension handset terminal
- Reassurance LED light on the patient terminal
- 4-Wires bus connection
- Dimensions 115mm x 74mm 21mm



Bed Call Terminals with light controls

WL-01



PR-L01

Patient's extension handset terminal with light control

Sheet clip



Automatic safety release system for accidental tearing of the cable



RJ45 connector

- Bed Call terminal with integrated night light and control of room lights on keyboard and on patient's extension handset terminal
 Wall-mounting type, can be wall-mounted inside a standard 3 module electrical box
 RJ45 connection slot for patient's extension headset terminal
 PR-L00 or PR-L01
 It also works with C-01ND Room Concentrator Terminal
- Reset and Call buttons
 - Integrated courtesy light
 - Room Light control
 - Automatic safety release system for accidental tearing of the cable with disconnection alarm of the patient's extension headset terminal
 - Reassurance LED on the patient terminal
 - 4-wires bus connection
 - Dimensions 115 mm x 74 mm 21 mm

Bed Call Terminal simple

TS-01



- Generic IP65 call terminal with call and reset buttons, can be used as a control terminal for toilet pull-cord call terminal
 Wall-mounting type, it can be fixed on the wall inside a standard 3-module electrical box.
 Features: Call, Reset functions, interfacing with external on / off devices, also working with C-01ND Room Concentrator Terminal.
- Reset and Call buttons
 - Reassurance LED on the patient terminal
 - ON / OFF connection input
 - 4-wires bus connection
 - Dimensions 115mm x 74mm 21mm

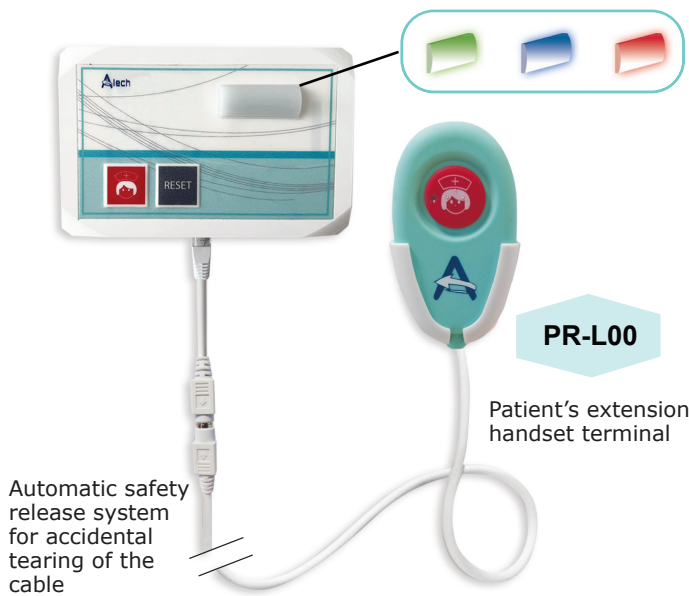
Toilet pull-cord call terminals

TB-01



- IP65 Toilet pull-cord call terminals with call and reset buttons.
 Wall-mounting type, can be wall-mounted inside a standard 3 module electrical box
 Features: Call, Reset buttons, Bus connection
 also works with C-01ND Room Concentrator Terminal.
- Reset and Call buttons
 - 4-wires bus connections
 - Dimensions 115mm x 74mm 21mm

Bed Call Terminals with call extension



WL-02

Head-bed Call terminal with call and reset buttons, integrated night light that can be controlled from the patient's extension handset terminal
 Wall-mounting type, can be wall-mounted on a standard 3 module electrical box
 Features: Call and Reset buttons, integrated courtesy light, RJ45 connection for patient's extension handset terminal PR-L00 or PR-L01 also working with C-01ND Room Concentrator Terminal.

- Reset and Call buttons
- Automatic safety release system for accidental tearing of the cable with disconnection alarm of the patient's extension handset terminal
- 4-wires bus connection
- Dimensions 115mm x 74mm x 21mm

PR-L00

Patient's extension handset terminal

Automatic safety release system for accidental tearing of the cable



RJ45 connector



Cable disconnection alarm system

Alech Network Server

ALS-01



NetServer: Hardware + Software Nurse Call Management Standard and Voip communications License

Features: Nurse Call software Standard license Module + Additional Voice sip (VoIP)

Server set with Alech NCS SW License Call events Management Software:

Allows a full control, setting up and operation of the Nurse Call System.

Reports and records all events related to the operation of NURSE CALL SYSTEM such as answers to calls divided by sections: Call zones, Call button ID, Assigned call operator, Date and time, Call response waiting times and delays, etc.

Records and Statistics of operation and call events, allows the setting up of the priority call alerts, monitors incoming calls based on assigned priorities, reminds and warns about system maintenance scheduling, warns about terminal disconnection alarms, or other malfunctions on the system.

Video card: HD graphics Video output: 1 * VGA interface, 1 * HDMI1.4 interface, support dual screen output.

Connection Type: Interface: 1 * USB3.0, 3 * USB2.0, 2 * COM. Network: Double Gigabit Ethernet (LAN), dual band WiFi.

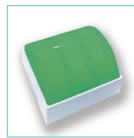
Memory: Single DDR3 memory slot, supports max 8G Hard Drive: MSATA + SATA 2.5 inch supports two hard drives

Notes: Nurse Call System Management Software License

Dimensions mm: L 440 * W 250 * H 44,5

Weight Kg: 3,4

Outdoor LED warning lights



Presence



WC call



Standard call



Blue call

LT-01

Serial line outdoor lamp

LT-01-ND

Intelligent outdoor lamp

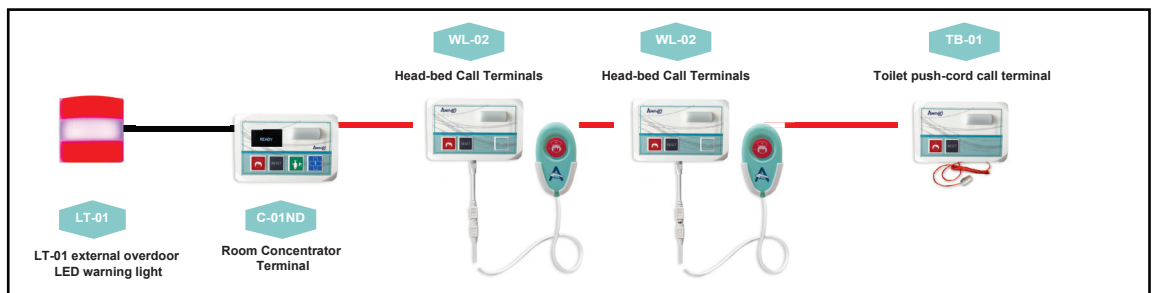
LT-02-D

Serial operating outdoor lamp

Outdoor LED warning light shows the type of calls with different colors: Red, Green, White and Blue. RGB LED technology, multicolored division into 3 sectors, complete with sound alarm in accordance to VDE-834 standards

Dimensions: 104mm x 86mm x 38mm

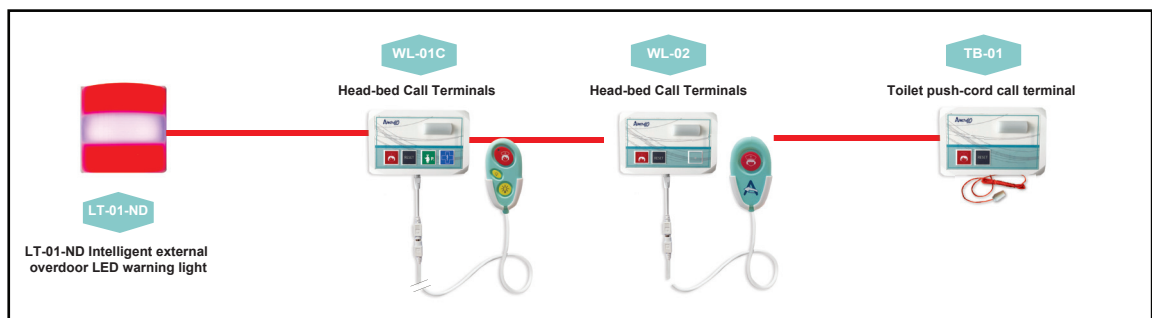
Connection example LT-01 warning light



LT-01

Serial line outdoor lamp

Connection example LT-01-ND Intelligent warning light



LT-01-ND

Intelligent outdoor lamp

LT-02-D

Serial operating outdoor lamp

Self Operating overdoor LED warning light is set with four ON/OFF inputs and one Reset input.

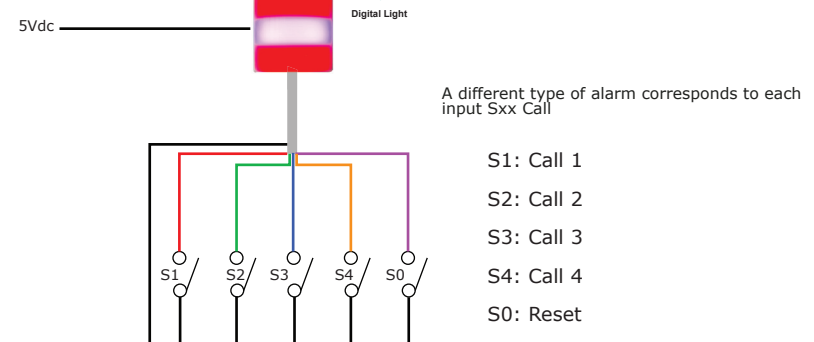
By connecting ON / OFF signals, it will be possible to activate the LED light without the need of other controlling devices. Possibility to manage up to four alarm levels with four different colors and acoustic alarms. One input is set to cancel the alarm. Each input can be multiplexed. Employed colors: Red, Green, White and Blue. RGB LED technology, multicolored division into three sectors, sound alarm in accordance to VDE-834 standards

Connection: ON / OFF wires

Power supply: 5Vdc or 110 /220VAC adapter

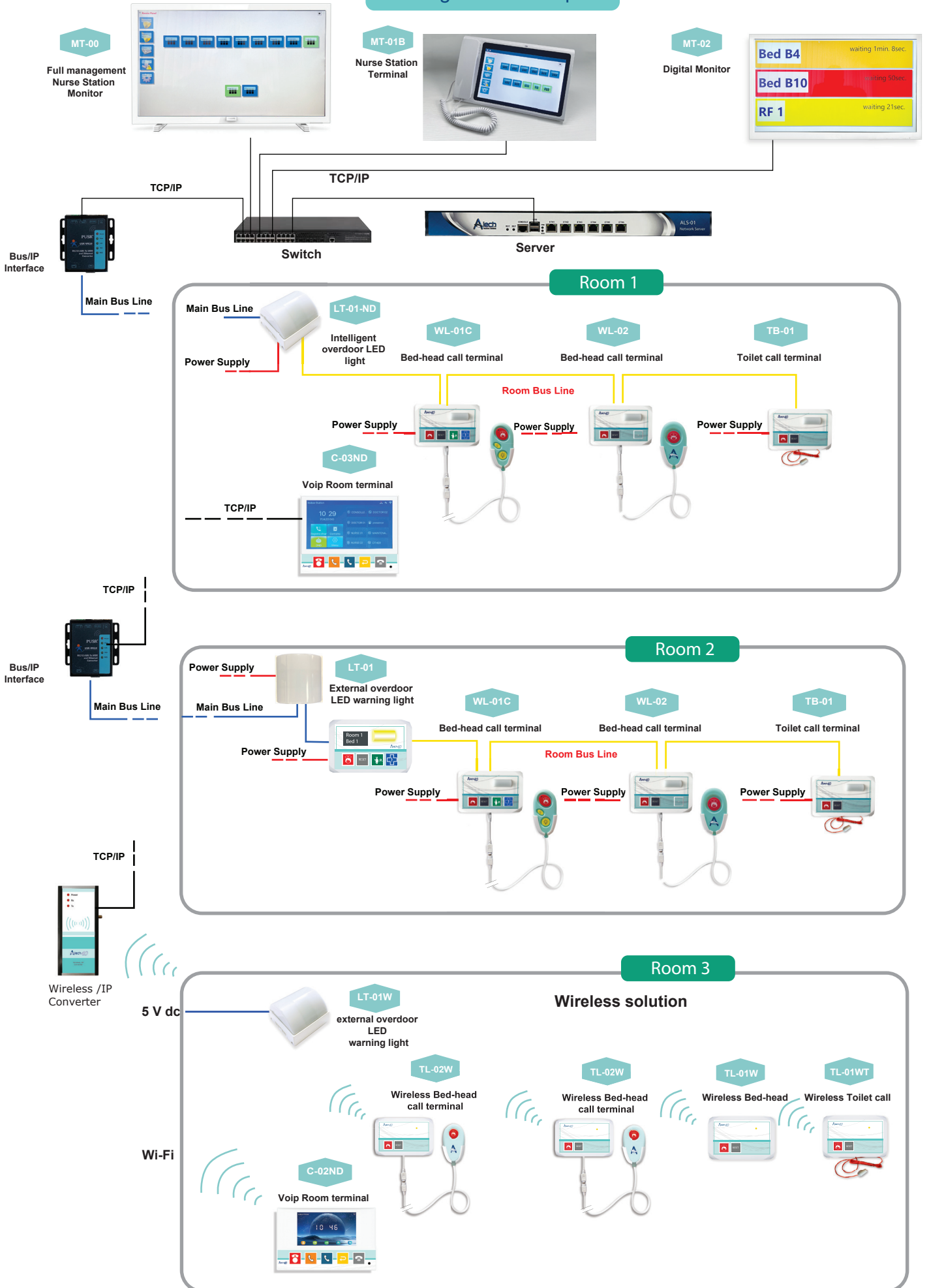
Dimensions: 104mm x 86mm x 38mm

LT-02-D Autonomous external overdoor LED warning light connection



Generic connections example

Configuration examples





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