Healthcare Communications





Comfort VOIP System Technical Data

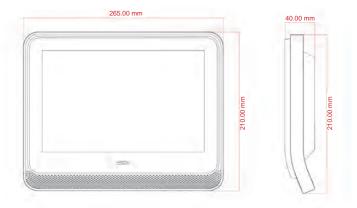
Room Control Unit

Comfort Room Control Unit

The comfort room control unit is the equipment that enables the nurse call panel and the call buttons in the room to communicate with each other. It is suitable for built-in or plaster mounting with room control panel.

- POE 15 w
- Wall Mount
- Voice full dublex (SIP protokol Voice over IP)
- Point to Point Call
- Conference Call
- Central announcement
- Voice recorder
- Overdoor lamp connection
- Touch Screen 10"
- HIS entegration (Hospital Information Systems)
- Entegrated RF card Reader
- Code Blue
- Cutomize Secren menus
- Multi language (Turkish, Engilish, Spanish, Russian, Customize)





Technical specification *ZKRUNCIPCMFRMC01*

Screen size (inches)	10 Inc
Operating system	Android
Weight (g)	500 gr.
Width (mm)	265 mm
Depth (mm)	40 mm.
Height (mm)	210 mm.
Display features	IPS Color Touch Screen
Screen resolution (px)	1024x768
Processor speed	Intel cpu
Memory	2GB Ram - 8GB Rom
Language	English, Spanish, Russian, Turkish Custom
Power supply	110-220 VAC 47-63 Hz
Operating temperature / Humidity	-10°C +60°C / % 30 %80 RH
Material	PC-ABS-FR (Flame Retardant)
Card reader	NFC Card Reader
Speaker	3Watt x 2
Input connection	1-Ethernet,1-RS 485, 2.Light Control
Color	White
Communication	TCP / IP - UDP - HTTP - RS485 - SIP
Power	POE
SD Card	Yes
USB	Mini USB

ZKR Versatile Plus

Room Control Unit

Versatile Plus Room Control Unit

This unit ensures communication between Nurse Console and Call buttons in the patient rooms. Room control unit is appropriate for both flush and shallow montage. They have 5" touchscreen, and standard feature allows it to assist total 8 call unit. Due to appropriate hardware, unit can define up to 8 call unit. Modern and durable structure and software ensures the best operating time. When a bed button is touched on the screen, patient information with in the HBYS software can be seen on the unit screen.

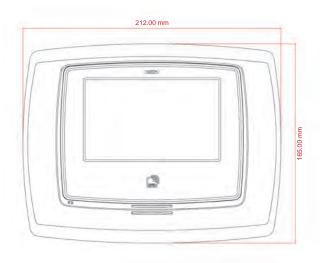


Technical specification *ZKRUNCIPRMCN100*

Screen size (inches)	120 mm 73 mm 5 inc Touch	
	Screen	
Operating system	Linux 4	
Weight (g)	500 gr.	
Width (mm)	212mm.	
Depth (mm)	39 mm.	
Height (mm)	165 mm.	
Display features	Color Touch Screen, TFT	
Screen resolution (px)	800x480	
Processor speed	16-24 Bit Flash	
	Microcontrollers 100-Pin	
Memory	64MB Ram 128MB Rom	
Language	English, Spanish, Russian,	
	Turkish Custom	
Power supply	110-220 AC - POE	
Operating temperature / Humidity	-10°C +60°C / % 30 %80 RH	
Material	PC-ABS-FR (Flame Retardar	
Card reader	MIFARE Classic	
Buzzer speaker	2400Hz 65 dB	
Input connection	1-Ethernet,1-RS 485, 2.Light Control	
Color	White	
Communication	TCP / IP - UDP - HTTP - RS48	
Current W	18W	

Routine control is a standard feature and allows the staff to report what time they have made a room check without a call.

Room control unit's hardware has a card reader. All cards that is read by the unit are asked for authorization check.



VOIP Handset

Talk to your patients

With speech feature, patient can speak directly with assigned nurse. This helps the hospiatl staff to save servicing time, prioritize the cases and make patients more relaxed by assuring of nurses' presence.

Service quality control

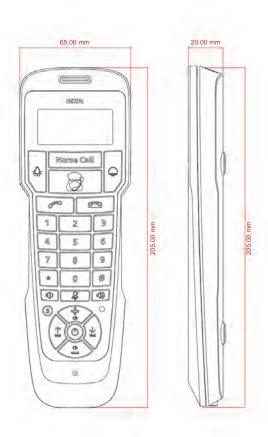
With ZKR comfort nurse call system all call conversations between hospital staff and patients are recorded for quality control and evaluation of care services.

Smartest interfaces and functions

Comfort IP Voice set is simple and easy to use. Patient just needs to press one big and easily noticeable button to make a voice call with assigned nurse. This set is water resistant sterile with user-friendly ergonomic functions.

Intelligent integration

Using the smarter handset patients can make outside/inside phone calls with automatic billing system. ZKR comfort system is integrated with any PBX analogue, digital or VOIP and with many brands as cisco, Alcatel, Avaya, Panasonic....etc





Technical specification ZKRUNCIPCMFHND01

Weight (g)	182 gr.
Width (mm)	65 mm
Depth (mm)	20 mm
Height (mm)	205 mm
Keypad	Anti-bacterial Membrane
Phone Book	Yes
Do Not Disturb Mode	Yes
Configuration	Embedded Micro Web Server
Custom Functional Button	3 Keys
Speaker	HD Voice
Material	PC-ABS-FR (Flame Retardant)
Remote TV Controller	Yes
Communication	SIP
Back Light	Yes
Color	White
Voip	SIP Full Duplex

Patient Handset

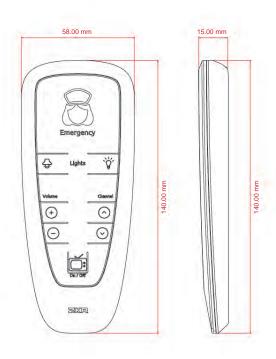
Patient Handset

Patient hand unit allows the patient inform the staff immediately.

- · Easy to use.
- · Unit works though connection to head set unit.
- TV control option (Channel and Volume)
- Leds also show the last made call so the patient's condition can be seen on the hand unit like the other warning unit. Light buttons help to control room lighting and reading lamp.



Technical specification ZKRUNCIPHS10200	
Weight (g)	115 gr.
Width (mm)	58 mm.
Depth (mm)	15 mm.
Height (mm)	140 mm.
Operating temperature / Humidity	-10°C +60°C / % 30 %80 RH
Cable Lengh	3 Meter Spiral Cable
Material	PC-ABS-FR (Flame Retardant
Back Light	Yes
Check number of connections	1-RS 485
Color	White



Bed Set Unit

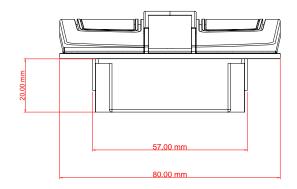
Bed Set Unit

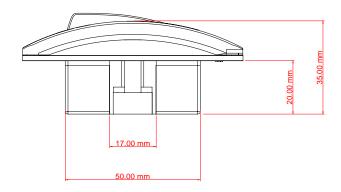
Bed Set Unit is used in the patient rooms. In an emergency, a patient uses the call button to make an emergency call which appears as a signal on the nurse console.

There are call and cancel buttons on the unit which are backlit and modern. Console is mounted on the patient headboard. Bed Set unit is connected to the headboard unit via RJ45 socket.

- This product is also a tool unit for the hand set unit to be connected.
- Can be flush mounted. Ergonomic.
- RJ45 socket provides easy installation.
- High quality PC-ABS-FR (Flame Retardandt) raw materials.
- Call and Reset buttons are lighted with leds so they are easy to notice.







Technical specification *ZKRUNCIPWL10100*

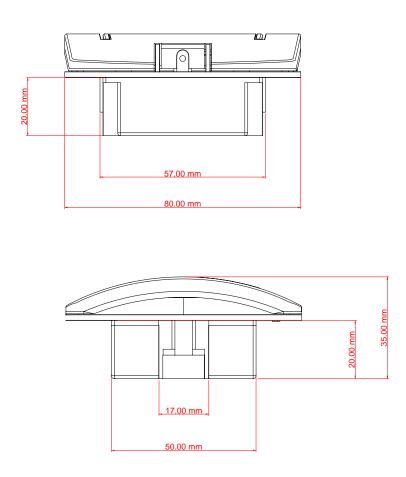
Weight (g)	56 gr.	
Width (mm)	80 mm.	
Depth (mm)	35 mm.	
Height (mm)	80 mm.	
Mounting dimensions	W-55mm D-20mm H-55mm	
Processor	Microchip	
Power supply	+ 5v dc	
Operating temperature / Humidity	-10°C +60°C / % 30 %80 RH	
Material	PC-ABS-FR (Flame Retardant)	
Buzzer speaker	2400Hz 65 dB	
Output connection	1-RJ45	
Input connection	1-RJ45	
Color	White	
Communication	RS 485	
Back Light	Yes	

WC Call Unit

WC Emergency Call Unit

Wc Call Unit is used in the bathrooms of patient rooms. In an emergency, patient pulls the rope making an emergency call. Appears as a WC Emergency call on nurse console.

System gives priority to WC Emergency calls and appears before other calls. There is a call reset button and emergency call rope on the unit. It's backlit and modern.





ZKRUNCIPWC10100		
Weight (g)	56 gr.	
Width (mm)	80 mm.	
Depth (mm)	35 mm.	
Height (mm)	80 mm.	
Rope Durability	Max 30kg	
Operating temperature / Humidity	-10°C +60°C / % 30 %80 RH	
Material	PC-ABS-FR (Flame Retardant)	
Buzzer speaker	2400Hz 65 dB	
Color	White	
Communication	RS 485	
Input Connection	1 RJ 45	

Overdoor Corridor Lamp

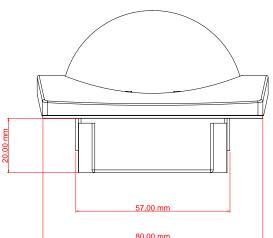
Overdoor Corridor Lamp

Overdoor Corridor Lamp is located above room door in the corridor. Half-sphere shape makes it easy to notice. So if there is an emergency in the room it can be noticed easily. It warns with three different colors. Red, green and blue.

The color depends on the call. Flush mounted above doors. If unsuitable can be mounted with surface mounted box.

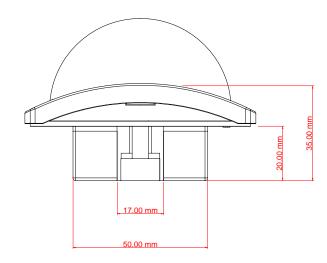






ZKR Versatile Overhead Door Warning Lamp

- Maintenance-technical support free plug and play architecture.
- · High level performance with its built-in antenna.
- 3 different main colors (blue, green, red)
- · Ability to achieve different warning colors by mixing primary colors,
- Very low energy consumption and environment friendly thanks to its LED design.
- · High quality PC-ABS-FR (Flame Retardandt) raw materials.



Weight (g)	56 gr.	
Width (mm)	80 mm.	
Depth (mm)	35 mm.	
Height (mm)	80 mm.	
Lighting Type	Led	
Operating temperature / Humidity	-10°C +60°C / % 30 %80 RH	
Current W	0.8	
Material	PC-ABS-FR (Flame Retardant)	
Power Supply	+5V	
LED Colors	Blue, Red, Yellow	
Communication	RJ 45	
Color	White	

Application Server

Application Server

This system is integrated with hospital PBX, nurse call panels, room control units and pager alarm system. It allows controlled access to patients' information from nurse call room control by providing hospital management system or by integration with the used system and database.

All nurse call panel send the notifications to this system for storing all events and provide a customized report as needed. By integration with hospital PBX, this system receives code blue call from any phone in hospital and announces it to pager system and nurse call system.



ZKVOX convert phone calls between legacy circuit-switched technologies and modern packet-switched technologies (VoIP). You can use gateways to connect legacy phone lines with ZKVOX system, or to connect legacy phone systems with VoIP services and features. ZKVOX can make calls using whatever method makes the most sense for your business. VOIP, traditional analog lines, video calling, the IP phones of your choice it's all up to you.

- This system is Linux OS.
- · Recording server for Voice order.
- WI-FI, DECT, IP phone integration.
- Connected with hospital PBX using analogue, IP, BRI or PRI.
- Warnings can be sent to DECT phones, pagers, mobile phones or phone lines.
- Emergency Code server (code blue, code pink, code white, service code) can be started or via room control units or from any place using the hospital's phones.
- All transactions are recorded and can be reported as needed.
- Connection types: SIP, H323, ISDN BRI, ISDN PRI and Analog.
- Protocol: TCP/IP and ZKRUS Protocol
- Paging protocol: POCSAG, Sipinfo and ESPA.

Examples for Situation Codes

- Code Blue
- · Code Pink
- Code White
- Consultation
- Staff or Service Code (Can be edited)

Reporting and Management Server

Technical specification

SR1010

Form factor	1U rack server	
Dimensions and weight	H: 42.8 mm (1.67 in), W: 434.0 mm (17.09 in), D: 495 mm (19.5 in)	
	w/o ear,	
	w/o bezel	
	Max weight: 10.6 kg (20.96 lb)	
Processor	1 processor from the following product families:	
	Intel® Xeon® processor E3-1200 v6 product family	
	• Intel Pentium®	
	• Intel CoreTM i3	
	• Intel Celeron®	
Chipset	Intel C236	
Operating system	Microsoft® Windows Server® 2016, Microsoft® Windows Server®	
	2012	
	Microsoft Windows Server 2012 R2, x64	
	Red Hat® Enterprise Linux®	
	VMware® Vsphere® ESXi®	
	SUSE® Linux Enterprise Server®	
Memory	Architecture: Up to 2400MT/s DDR4 DIMMs	
	Memory type: UDIMMs	
	Memory module sockets: 4	
	Maximum RAM: Up to 64GB	
Storage	• 2.5" SATA 7.2k	
	• 2.5" nearline SAS 7.2k	
	• 2.5" 10k SAS HDDs	
	• 2.5" 15K SAS HDDs	
	• 2.5" SATA SSDs	
	• 3.5" Enterprise SATA 7.2k HDDs	
	• 3.5" nearline SAS 7.2k HDDs	
	• 3.5" 7.2k SATA entry drives	
Hypervisor support	Microsoft Windows Server with Hyper-V® VMware® vSphere®	
	ESXi®	
Drive bays	2 x 3.5" cabled HDD	
•	4 x 3.5" cabled HDD	
	4 x 3.5" hot-swap or 2.5" hot-swap in hybrid drive carrier	
Slots	2 x PCIe 3.0 slots: x16 slot, full-height (1x8 3.0)+ x8 slot, low-profile	
	(1x4 3.0).	
RAID controllers	PERC S130, PERC H330, PERC H730, PERC H830	
Network controller	Broadcom® 5720	
Communications	2 x 1GbE LOM	
Communications	Click here for R230 supported network interface cards (NICs) and	
	host bus adapters (HBAs) and scroll to "Additional Network Cards"	
	section.	
Power	250W cabled PSU	
		• UP Operations Manager
Management	IPMI 2.0 compliantDell OpenManage Essentials	HP Operations ManagerDell OpenManage Integration
	Dell OpenManage Essentials Dell OpenManage Mobile	Suite for Microsoft
	Dell OpenManage Power Center	System Center, Dell OpenManage
	Plug-in for Oracle® Enterprise Manager	Integration for
	Dell OpenManage Integration Suite for Microsoft	VMware vCenter®
	System Center, Dell OpenManage Integration for VMware vCenter®	viviware voemers
Input connection	1 x USB 3.01 1x Headphone Out 1 x PS/2 Keyboard1 x PS/2	
input connection	Mouse1 x RJ-45	
	Ethernet1 x VGA (Display Out)1 x Serial Port (RS232)1 x Mic In 4 x	
	USB 2.0	
Device access	5 total USB:	
DOVIDO 000033	Rear: 2 x USB 3.0 ports	
	Front: 2 x USB 2.0 ports	
	Internal: 1 x USB 3.0 port	
Rack support	ReadyRails™ static rails for tool-less mounting in 4-post racks with	
ιτασιτ σαρρυτί	square or unthreaded round holes or tooled mounting in 4-post	
	threaded and 2-post racks.	
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Nurse Information Panel

Nurse Information Panel

The status of all working room control units connected to the panel can be monitored actively. All errors and notifications shall be displayed on the information panel. Emergency codes, WC-bathroom, and normal calls may be monitored. All processes passing through the system are logged. All logs can be reported in detail. There are a configurable number of room monitoring icons on the interface. The status of calls are tracked in real time via these icons.





Features

- 10.1" HD Touch display
- Panel to room communication
- Panel to a group of rooms communication
- General call from rooms or nurse stations
- Full duplex
- SIP protocol
- PoE (Power Over Ethernet)
- Built-in HD Camera (720p)
- Conference call
- Real-time nurse monitoring
- Creation of personnel authorization levels
- · Access to patient info
- Possibility of showing photo of patient calling in room panel and nurse station
- · Call priority depending on level of urgency
- No wiring needed, uses the structural cabling
- · Automatic network checks
- As many call jumps as needed to other nurse stations or rooms
- Exceptional HD voice and sound
- Microphone on front side
- 3 Loudspeakers bass plus 2 tweeters
- External conference speaker connection
- Integrated WiFi Client, Bluetooth
- Ethernet with 2-port switch
- Integrated Power over Ethernet



7 inc Nurse Information Panel

Features

- 7" HD Touch display
- Panel to room communication
- Panel to a group of rooms communication
- General call from rooms or nurse stations
- Full duplex
- SIP protocol
- PoE (Power Over Ethernet)
- Conference call
- Real-time nurse monitoring
- Creation of personnel authorization levels
- Programming colors of lamps depending on customer needs
- Access to patient info
- Possibility of showing photo of patient calling in room panel and nurse station
- Call priority depending on level of urgency
- No wiring needed, uses the structural cabling
- · Automatic network checks
- Easy programming
- · As many access levels as needed
- As many call jumps as needed to other nurse stations or rooms

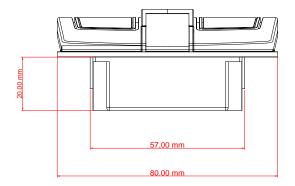
Code Blue Unit

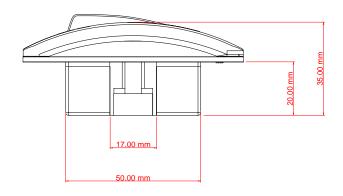
Code Blue Unit

Blue code start and end buttons are available. The blue code unit is connected to the RJ45 socket on the unit. It has an illuminated, aesthetic and durable structure.

- The built-in buckle has an ergonomic structure for fitting.
- RJ45 socket allows easy installation.
- · ABS / FR raw material is used.
- Continuous LEDs for easy viewing of emergency call and reset buttons







Technical specification ZKRUNCIPCDBL101 Weight (g) 56 gr. Witdh (mm) 80 mm. Depth (mm) 35 mm. Height (mm) 80 mm. **Mounting Dimensions** W-55mm D-20mm H-55mm Processor Microchip Power 5v dc Operating temperature / Humidity -10°C +60°C / % 30 %80 RH Material ABS/FR Buzzer Speaker 2400Hz 65 dB Output 1-RJ45 Input 1-RJ45 Color Beyaz Communication RS 485 Backlit Yes

Impact Resistant Bed Set Unit

Impact Resistant Bed Set Unit

The bed set unit is mounted in the patient bedset console. There are nurse call and call termination buttons on it. It has an illuminated, aesthetic and durable structure.

- The built-in buckle has an ergonomic structure for fitting.
- RJ45 socket allows easy installation.
- · Stainless steel raw material is used.
- It has IK 10 Impact Resistance Certificate.
- · Emergency call and reset buttons are illuminated by LEDs continuously for easy viewing.



Technical specification ZKRUNCIPWL10200 Weight (g) 76 gr. Witdh (mm) 165 mm. Depth (mm) 3 mm. Height (mm) 90 mm. Processor Microchip Power + 5v dc Operating temperature / Humidity -10°C +60°C / % 30 %80 RH Material ABS/FR Buzzer Speaker 2400Hz 65 dB Output 1-RJ45 Input 1-RJ45 Color Metalic Gray Communication RS 485 **Backlit** Yes

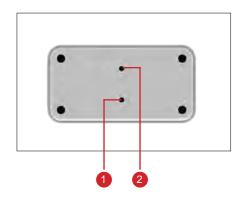
Lamp Control Module

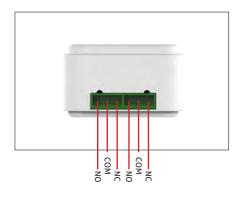
Lamp Control Module

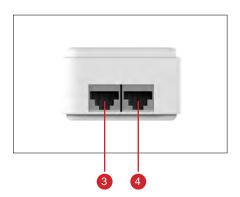


This unit used for handset and room light system integration.
One unit must be used for each hand set.

- Config Button
 Status Led
- 3. Out
- 4. In







Technical specification		
ZKRUNCANRMLK100		
Weight (g)	75 gr.	
Width (mm)	80 mm.	
Depth (mm)	50 mm.	
Height (mm)	40 mm.	
Operating temperature / Humidity	-20°C +60°C / % 30 %80 RH	
Connection Type	Vavien	
Output	No-com-NC	
Input	1-RJ45	
Color	Gray	
Communication	RS 485	