



Industrial Intercom Product List



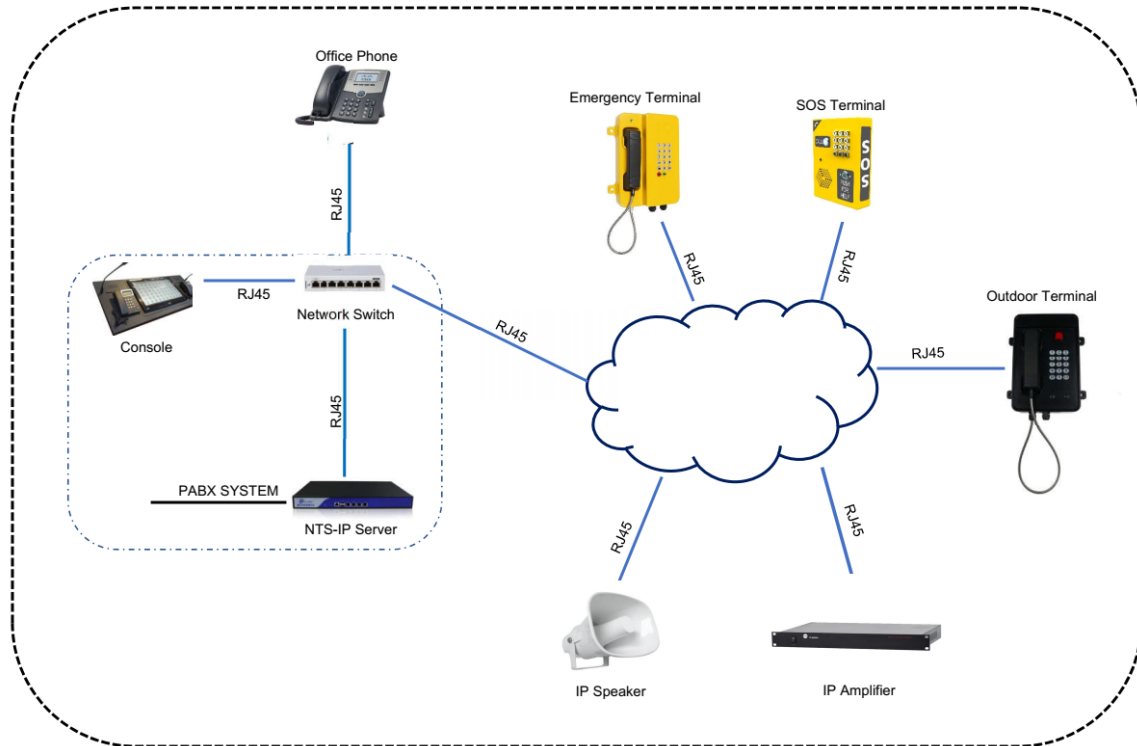


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Industrial IP Intercom System

SIPTEC's unique Industrial IP Intercom System is an integrated audio and video communication system that adopts advanced IPAudio™ technology, which is a pure digital transmission system by transmitting the signal in data packet on the LAN and WAN. The system solves the limitation of the transmission distance, susceptible to interference and such problems in traditional intercom and PA systems. The construction of the system is clear that just connecting the terminal to the computer can make up the strong digital communication system. It integrates the computer network, intercommunication and public address without separate wiring to each interface.



System Features

- Function: it covers the intercom and PA system functions such as audio streaming on-demand service, budget management, terminal management, and authorization management, and so on.
- Transmission: audio transmission distance can infinitely extend and it can be operated over LAN and internet. The system supports the significant application in a large scale, such as the centralized control room from the main campus to sub-campus, from the headquarter to the branch office, to realize the fast and reliable information communication. The program takes up only 0.1Mbps of bandwidth per channel.
- Tone quality: Terminal output level close to CD quality (44.1K, 16.bit). It is more suitable for music enjoyment and listening training, such as Colleague Entrance Examination, CET4 and CET6 listening part. All the listening material can be clearly played and the candidates will not be puzzled by the vague sounds.
- The tone quality is clear and smooth, not disturbed by external electromagnetic waves. The minimum bandwidth is only 34kbps. The calling delay in LAN is less than 30 milliseconds.
- The transmission distance can be infinitely extended. With the network, it can realize the intercom and multiparty call and build information and communication system in wider scale.
- It adopts digital audio processing technology and the audio width is 7KKz. The system has the function of echo cancellation and noise reduction, and realizes full-duplex conversation, multiparty calling and zone-broadcast.
- Confidential communication, special audio coding format, encryption processing, prevent eavesdropping.
- It is simple to adjust the communication scale, and it can complete the system expansion with increasing the terminal.

Function List

Function	Sub-function	Description
Talking	• Two-way hands-free call	When the call is connected, the call is made in handsfree mode immediately, with full-duplex and echo cancellation.
	• Two-way earphone call	Connect an external earphone to talk in high noise environment or don't want to influence others
Call	• Single button call	A quick call to a target terminal; every terminal can set an independent target.
	• Number buttons call	Through numerical buttons to randomly call any terminals
	• Call ringtone	With such tones of "call busy" and "hang up" can be set up (only supportive by the terminals with a SD card).
Call Answer	• Auto answer	The automatic answer can be set on the terminal at 1 time after the ring.
	• Manual answer	The ring continues on the terminal until there is a manual answer.
Call Transfer	• Busy line transfer	The call can be automatically transferred to another terminal if the target line is busy.
	• Power off transfer	If the target is powered off or out of connection, the call will be automatically transferred.
	• No answer transfer	If the call has not been answered in a specified times of ring tones, it will be automatically transferred.
	• Manual transfer	Received call can be manual transfer to anyone terminal, and end the present call.
	• Breakdown call	The administrator can abruptly break down an ongoing call.
	• Caller ID Display	To display the caller's ID and review the missed calls and incoming calls; Support Chinese and English.
	• Incoming call playing	Automatically playing the incoming call terminal name through the internally loudspeaker.
Broadcast		Broadcast to a single or multiple zone via IP network paging microphone. The server software can remotely adjust the volume of each terminal
Emergency broadcast		Play the pre-recorded Voice message to a specified terminal through IP paging microphone. (Multiple Voice messages are optional).
Monitoring		The terminal that built-in microphone can monitor the sound conditions around the terminal in the main control room.
BGM		The loudspeakers of the terminal can play background music and the music will stop during conversation; live broadcast, timing broadcast and trigger broadcast are available.
External control		The terminal short circuit output can control the electrical door lock; The terminal short circuit input can connect the external red emergency button.
Digital record		The system can automatically record the data of conversation and store on the server.
Hubbub alarm		If it has detected a screaming or a tumult, the terminal will automatically deliver the alarm to the center service software.

Continued

Function	Sub-function	Description
Extension Interface	<ul style="list-style-type: none"> • Integrate wireless intercom 	Through the linkage between the IP wireless intercom base station and the 400 wireless intercom system, the wired user can join in the wireless users' group freely and make a half-duplex (PTT mode) conversation with them.
	<ul style="list-style-type: none"> • Integrated with fixed phone 	Connected with IP telephone PBX can make two-way conversation (with voice prompts); The fixed telephone can broadcast to the intercom system (including the partitions and all zones)
	<ul style="list-style-type: none"> • Integrated with the VOIP telephone 	Inter-working with VOIP phone. It's compatible with SIP protocol and VOIP system
	<ul style="list-style-type: none"> • Integrate fire/PA system 	To be comprehensively compatible with IP PA system with the function of timing and live broadcast. To broadcast through the PA system with the pre-programming information according to the alarms from the firefighting center.
	<ul style="list-style-type: none"> • Linkage CCTV 	We can offer SDK secondary develop package, the call switch can be controlled by CCTV or the monitor screen can be automatically switched during talking.
Scale application	<ul style="list-style-type: none"> • Cluster server (for large scale) 	To adopt multi servers to manage terminals to reduce the risk of the malfunction of the network; serving for the inter-provincial applications over a large scale where as much as 100000pcs terminals is used at one time (a cluster of 100 pieces of servers with 1000 pieces of terminals loaded on each server).
	<ul style="list-style-type: none"> • Single server (for medium scale) 	To manage all the terminals, and its application scale is up to 1000 pieces of terminals. (each server can load 1000 terminals)
	<ul style="list-style-type: none"> • Without server 	Be independent from the server to make the basic communication; Assist some independent zone to take emergency measures when its connection to the server breaks down; Its application scale is up to 100 pieces of terminals. (for small scale)

IP network visualization control Console



SIPTEC IP network visualization control console is a professional IP communication intelligent product integrating audio, video communication and system control. It uses a 10.2-inch multi-touch capacitive screen, high-definition LCD display, 13 million-pixel high-definition camera and high-definition earpiece, allowing users to get a clearer audiovisual experience. It integrates dual RJ45 network ports, HDMI, USB 3.0, audio input and output, alarm input and output and other interfaces, providing customers with richer and more efficient business applications.

Features

- Professional console design, can be installed placement of desktop, hanging and embedded.
- With a 10.2 inches digital image display, capacitive touch screen, resolution ratio 1280 * 80.
- Built-in 13-megapixel HD digital camera, support two-way video calling.
- Can view the working status of other terminals (login status, intercom status, task status) .
- Can broadcast to the whole area, sub-area and individual terminals. The broadcast audio source supports microphone stick input, microphone input, line input, audio files, text files and pre-recording.
- With a red emergency button, support one key broadcasting to the preset group.
- Support local sound reinforcement function, be through 3.5mm line output external active speaker for local sound amplification/program playback.
- Built-in 3W speakers and microphones, used for hands-free calls, receive broadcast and monitoring (digital noise reduction).
- Support incoming/outgoing display function and view all call records (missed calls, incoming calls and outgoing calls) at the same time.
- Supports the remote unlocking function. During intercom, you can send the unlocking command to the intercom terminal to trigger the short-circuit output action of the other party.
- Supports PTT intercom, which is used for intercom with the wireless intercom connected to the system.
- Support multi-party call function, can support up to five party intercoms simultaneously.
- Support call transfer function, support busy transfer, manual transfer, no responding transfer, and etc.
- Support offline intercom、 offline broadcasting function without server.
- Support single or loop monitoring target terminal.

- Supports the audio and video conferencing function. The meeting initiator can control meeting participants, voice control, file transfer control, and online voting. Supports face check-in in meetings.
- HDMI video output interface can support double screen display or double screen display extension applications.
- With 1 alarm output and 1 alarm input interface to trigger outside connection lights and accept linkage.
- Support 1 channel of 3.5mm line input and 1 channel of 3.5mm line (recording) output interface to meet audio collection and playback under different applications.
- Standard RJ45 network interface, can access if there is a Ethernet, support across the network segment and route.

IP network interface unit



SIPTEC IP network interface unit is IP Audio digital network audio technology with built-in independent intellectual property rights. It's equipped with the power input interface, alarm input / output interface, and RJ45 network interface.

Features

- Using high-speed industrial dual-core chip (ARM + DSP), the startup time is less than 3 seconds.
- It can use multiple IP network interface unit in this system, to expand the interface. With a 32-alarm input interface and a 8-short circuit output interface.
- Auto-send alarm information to the server to execute playing task (support the next layer and all zones alarm).
- Alarm sound files is prestored in the server to spare "alert generator".
- Works everywhere as long as Ethernet available, support across the network segment and routing.

IP Network Digital Amplifier



SIPTEC IP network digital power amplifier is equipped with built-in IP Audio digital network audio technology with independent intellectual property rights, adopting high-performance digital power amplifier, which has the features of high efficiency, high performance and low distortion.

SIPTEC IP network digital power amplifier is a part of IP network PA system, controlled by the system software, which can realize local and remote background music broadcasting functions.

Features

- Adopting 1U rack-mounted design, steel plate shell, with smaller space occupation, sturdy and durable.
- 100V / 70V constant voltage output (Default constant voltage 100V output, support to set as 70V output on webpage).
- Equipped with power light, status indicator light, signal light, overload light and protection light on the front panel, used for indicating the working condition of the amplifier, easier maintenance.
- With 1×MIC Input and 2×Line Input, independent volume control of MIC Input and Line Input.
- Possessing MUTE function, supporting MUTE level adjustment.
- With 1×Line Output, external amplifier expandable.
- With 1×Alarm Input and 1×Alarm Output, supporting DC 24V strong cutting power output.
- Supporting offline broadcasting, local broadcast can be started automatically when the network is interrupted.
- Built-in complete protection circuit, supporting overload and overheat protection, supporting power supply and circuit lightning protection and surge protection.
- Standard RJ45 interface, can be connected when there's Ethernet, supporting cross network segment and cross routing.



Weatherproof Telephones



JR101-CB-L

Weatherproof Telephone



- Standard Analogue phone or SIP phone
- Aluminum alloy die-casting body with door cover
- Vandal resistant handset and cord
- Weather proof protection to IP67
- Programmable for auto-dial
- Wall mounting, simple installation
- Inductive coupler fitted as standard for hard of hearing
- Phone line powered(analogue)
- External power supply or PoE (SIP)
- RJ45 Port for SIP connection
- With LED lamp fixed on the top
- CE compliant

The JR100 series telephones are fully contained within a corrosion resistant cast aluminum weatherproof case with a door providing complete protection against dust and moisture ingress, resulting in a highly reliable product with a long MTBF.

The unique robust handset is manufactured from molded Bulk Molding Compound and designed specifically to withstand arduous use in all environments, armored cord to provide additional resistance to vandalism or heavy industrial use.

The JR100 series Weatherproof Telephones are designed for use by the railways, power stations, the armed services and heavy industry which require very reliable telephony under adverse conditions.

Standard Analogue

As a standard analogue telephone, this unit provides basic telephone functions and can be connected to any standard two-wire telephone line, including analogue PABX lines and PSTN.

SIP-VoIP TECHNICAL SPECIFICATIONS

Power Input:

12-24V DC

Port:

WAN: 10/100Base- T RJ-45 for LAN, Auto MDIX

LAN: 10/100Base- T RJ-45 for PC, Auto MDIX

Power Consumption:

Idle:1.5W/ Active:1.8W

Voice Features

- Support SIP 2.0 (RFC3261)
- Codec: G.711A/u, G.7231 high/low, G.729, G.722
- Echo cancellation: Support G.168 and hand-free can support 96ms
- Support full duplex
- SIP support SIP domain, SIP authentication (none, basic, MD5), DNS name of server
- DTMF: SIP info, DTMF Relay, RFC2833
- Call control features: Flexible dial map, support hot-line

Network Features

- WAN/LAN: support Bridge mode
- Support static IP address
- Support DHCP get IP on WAN port
- Support VLAN
- Support web config

JR101-CB-L

Weatherproof Telephone

TECHNICAL SPECIFICATIONS

Casing Material

Die cast aluminum, epoxy powder coated.

Colors

Yellow, other colors to special order

Handset Material

Durable ABS plastic with stainless steel spiral cord

Keypad

No Keypad

Temperature

Operating: -30°C to +65°C

Storing: -40°C to +75°C

Weather Resistance

IP67

Ringing Tone

Shrill warble tone 80 dBA @ 1 meter typical

Hook switch

Electronic / magnetic with no visible moving parts

M.T.B.F.

Calculated to have an M.T.B.F. in excess of 50,000 hours using

Weight

Up to 7 kg depending on option

ANALOGUE

Dialing

MF (tone)

Power supply

Drawn from telephone line

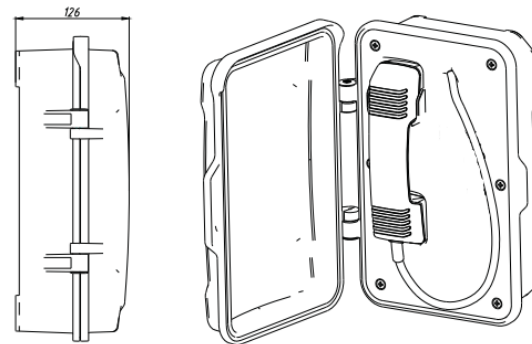
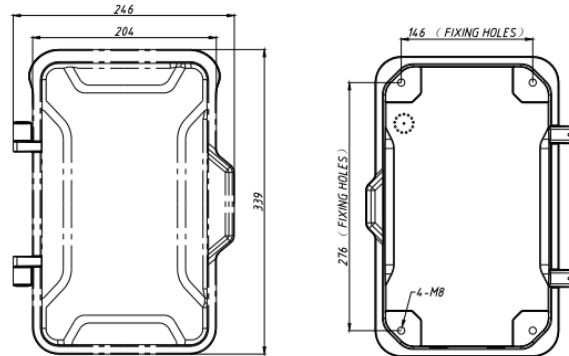
Lightning / Transients

Protection to ITU-T k.21 enhanced levels

Programming

Can be programmed as an auto-dial phone by build-in keypad or remote programming

DIMENSIONS



(Measured in mm)

PACKAGE

Unit Size: 339*146*126 mm (H*W*D)

Carton Size: 200*300*440 mm (H*W*D)

Packaging materials: pearl cotton, carton

Net weight: 6KG; Gross weight: 7KG

APPROVALS



This mark indicates compliance with the:
Radio & Telecommunications Terminal
Equipment
Directive
2004/108/EC



This mark indicates compliance with the:
FCC Part 15 Subpart B Class B

JR105-FK

Weatherproof Telephone



- Standard Analogue phone/SIP phone
- Vandal resistant handset and cord
- Weather proof protection to IP66
- Full keypad with memory, 0-9 buttons can be programmed as speed dial button.
- “LR” button for last number redial
- “R” for flash recall
- “M” for muting
- Wall mounting, Easy for installation
- Inductive coupler fitted as standard for hard of hearing, with LCD display
- Phone line powered (Analogue)
- External power supply or PoE (SIP-VoIP)
- RJ45 port for SIP phone
- CE, FCC, ROHS compliant

The JR100 series telephones are fully contained within a corrosion resistant cast aluminum weatherproof case with a door providing complete protection against dust and moisture ingress, resulting in a highly reliable product with a long MTBF.

The unique robust handset is manufactured from molded Bulk Molding Compound and designed specifically to withstand arduous use in all environments, armored cord to provide additional resistance to vandalism or heavy industrial use.

The JR100 series Weatherproof Telephones are designed for use by the railways, power stations, the armed services and heavy industry which require very reliable telephony under adverse conditions.

Standard Analogue

As a standard analogue telephone, this unit provides basic telephone functions and can be connected to any standard two-wire telephone line, including analogue PABX lines and PSTN.

SIP-VoIP TECHNICAL SPECIFICATIONS

Power Input:

12-24V DC

Port:

WAN: 10/100Base-T RJ-45 for LAN, Auto MDIX

LAN: 10/100Base-T RJ-45 for PC, Auto MDIX

Power Consumption:

Idle:1.5W/ Active:1.8W

Voice Features

- Support SIP 2.0 (RFC3261)
- Codec: G.711A/u, G.7231 high/low, G.729, G.722
- Echo cancellation: Support G.168 and hand-free can support 96ms
- Support full duplex
- SIP support SIP domain, SIP authentication (none, basic, MD5), DNS name of server
- DTMF: SIP info, DTMF Relay · RFC2833
- Call control features: Flexible dial map, support hot-line

Network Features

- WAN/LAN: support Bridge mode
- Support static IP address
- Support DHCP get IP on WAN port
- Support VLAN
- Support web config



JR105-FK

Weatherproof Telephone

TECHNICAL SPECIFICATIONS

Casing Material

Die cast aluminum, epoxy powder coated.

Colors

Yellow, other colors to special order

Handset Material

Cycoloy with stainless steel spiral cord

Keypad

Rubber Keypad

Temperature

Operating: -30°C to +65°C

Storing: -40°C to +75°C

Weather Resistance

IP66-IP67

Ringing Tone

Shrill warble tone 80 dBA @ 1 meter typical

Hook switch

Electronic / magnetic with no visible moving parts

M.T.B.F.

Calculated to have an M.T.B.F. in excess of 60,000 hours using

Weight

Up to 6 kg depending on option

ANALOGUE

Dialing

MF (tone)

Power supply

Drawn from telephone line

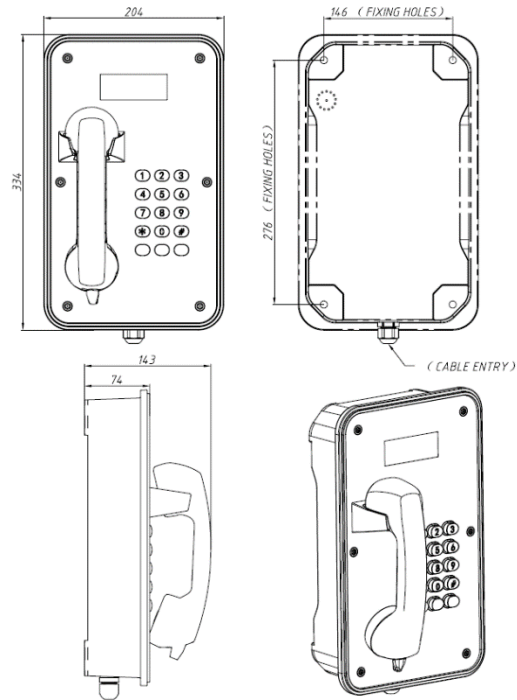
Lightning / Transients

Protection to ITU-T k.21 enhanced levels

Programming

Can be programmed remotely by DTMF tone or use keypad

DIMENSIONS



(Measured in mm)

PACKAGE

Unit Size: 204*334*109 mm (H*W*D)

Carton Size: 200*300*440 mm (H*W*D)

Packaging materials: pearl cotton, carton

Net weight: 5KG; Gross weight: 6KG

APPROVALS



This mark indicates compliance with the: Radio & Telecommunications Terminal Equipment Directive 2004/108/EC



This mark indicates compliance with the: FCC Part 15 Subpart B Class B



Emergency Terminals



JR301-SC

Emergency Terminal



- Standard Analogue phone (PSTN) or SIP- VoIP phone or GSM/3G phone
- Robust housing, stainless steel panel and cold rolled steel back box
- Vandal resistant metal button
- Hands free operation
- Wall mounting, simple installation
- Weather proof protection: IP54 to IP65
- Phone line powered (PSTN) or PoE (SIP)
- Or External power supply (GSM/3G)
- RJ45 Port for SIP connection
- 4 X Tamper proof screws for mounting
- CE, FCC compliant

The Hands-free Terminal is designed to meet the needs of client who experience loss through vandalism. Ideal for lifts/elevators, prisons, railway/metro platforms, hospitals, police stations, ATM machines etc.

Housed in stainless steel box and manufactured to a high standard, these telephones offer increased resistance to vandalism, and ensure that the primary function of communications is maintained at all times.

Analogue

As a standard analogue telephone, this unit provides basic telephone functions and can be connected to any standard two-wire telephone line, including analogue PABX lines and PSTN.

Dialing

MF (tone)

Power supply

Drawn from telephone line

Lightning / Transients

Protection to ITU-T k.21 enhanced levels

Programming

Can be programmed as an auto-dial phone

SIP-VoIP TECHNICAL SPECIFICATIONS

Power Input:

12-24V DC

Port:

WAN: 10/100Base- T RJ-45 for LAN, Auto MDIX

LAN: 10/100Base- T RJ-45 for PC, Auto MDIX

Power Consumption:

Idle:1.5W/ Active:1.8W

Voice Features

- Support SIP 2.0 (RFC3261)
- Codec: G.711A/u, G.7231 high/low, G.729, G.722
- Echo cancellation: Support G.168 and hand-free can support 96ms
- Supports full duplex
- SIP support SIP domain, SIP authentication (none, basic, MD5), DNS name of server
- DTMF: SIP info, DTMF Relay · RFC2833
- Call control features: Flexible dial map, support hot-line

Network Features

- WAN/LAN: support Bridge mode
- Support static IP address
- Support DHCP get IP on WAN port
- Support VLAN
- Support web config

JR301-SC

Emergency Terminal

GSM/3G TECHNICAL SPECIFICATIONS

Standard SIM card

Working Frequency Range:

GSM: GSM850/900/1800/1900MHZ

3G: WCDMA850/1900/2100MHz

GSM850/900/1800/1900MHz

Adapter Input:

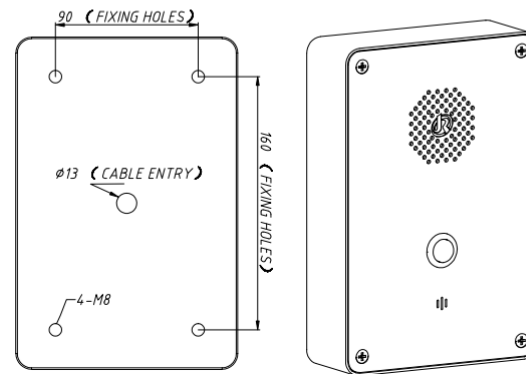
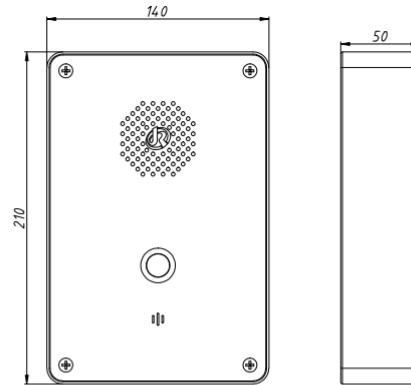
7.4 V-12V DC

Power Consumption:

Idle current: 75mA

Off hook current: 160mA

DIMENSIONS



(Measured in mm)

TECHNICAL SPECIFICATIONS

Casing Material

Stainless steel face plate

Cold rolled steel back box

Handset Material

No Handset

Keypad

Internal keypad for programming

Temperature

Operating: -30°C to +65°C

Storing: -40°C to +75°C

Weather Resistance

IP54-IP65

Ringtone

Shrill warble tone 80 dBA @ 1 meter typical

Hook switch

No Hook switches

M.T.B.F.

Calculated to have an M.T.B.F. in excess of 50,000 hours using

Weight

Up to 3.5 kg depending on option

PACKAGE

Unit Size: 210 *140 *50 (mm)

Packaging materials: pearl cotton, carton

Net weight: 2.5KG; Gross weight: 3.5KG

APPROVALS



This mark indicates compliance with the:
Radio & Telecommunications Terminal
Equipment
Directive
2004/108/EC



This mark indicates compliance with the:
FCC Part 15 Subpart B Class B



Explosion-proof Telephones



JREX101

Explosion-proof Telephone



- **Standard Analogue or VoIP/SIP Explosion-proof & Weatherproof Telephone**
- **Aluminum alloy die-casting body**
- **Vandal resistant handset and cord**
- **Full Keypad**
- **Inductive coupler fitted as standard for hard of hearing**
- **Wall mounting, simple installation**
- **Phone line powered (Analogue)**
- **Power-Over-Ethernet / PoE (SIP-VoIP)**
- **II 2G Ex e ib mb IIC T6 Gb**
- **II 2D Ex ib [ib] tb IIC T80 Db**
- **Zone 1 & 2 & 22**
- **Weather proof protection to IP66-IP67**
- **ATEX, CE, FCC, RoHs compliant**

The Explosion Proof Telephone is designed for voice communication in the hostile environment where reliability, efficiency and safety are of prime importance.

The telephone can handle the large temperature differences found outdoors, high humidity, exposure to sea water and dust Corrosive atmosphere, Explosive gases & particles, as well as mechanical wear and tear, making it perfect for use as an emergency telephone.

The unique robust handset is manufactured from molded Bulk Molding Compound and designed specifically to withstand arduous use in all environments, armored cord to provide additional resistance to vandalism or heavy industrial use.

The Explosion-proof and Weatherproof Telephones are designed for use by the chemical plant, Coal Mine, power stations, the armed services and heavy industry which require very reliable and explosion protection telephony under adverse conditions.

ANALOGUE

As a standard analogue telephone, this unit provides basic telephone functions and can be connected to any standard two-wire telephone line, including analogue PABX lines and PSTN.

Dialing

MF (tone)

Power supply

Drawn from telephone line

Programming

Can be programmed remotely by DTMF tone or use keypad

VoIP/SIP

Telephone version

Standard SIP/VOIP Telephone

SIP Protocol

SIP 2.0(Compatible with most IP PBX)

Connection

Direct connection to LAN or WAN via RJ45 connector

Power supply

Power over Ethernet

Configuration

Fully configurable through any internet browser or the on-board display

Static IP address provisioning or DHCP

JREX101

Explosion-proof Telephone

TECHNICAL SPECIFICATIONS

Explosion protection

II 2G Ex e ib mb IIC T6 Gb
 II 2D Ex ib [ib] tb IIIC T80 Db
 $-40\text{ }^{\circ}\text{C} \leq T_a \leq +60\text{ }^{\circ}\text{C}$
 Zone 1, 2, 22

Lightning / Transients

Protection to ITU-T k.21 enhanced levels

Casing Material

Die cast aluminum, epoxy powder coated.

Color

Available in four colors:
 Orange, Yellow, Red and Blue

Keypad

Weather resistant full Keypad, No. of Keys (TOTAL 15 KEYS): 0-9, *, #, Redial, Mute, Last Number Redial

Handset

With Noise canceling microphone, for effective communication from noisy areas (Armored SS cord stands up to rough treatment, optional for black curly cord)

Mounting

Wall/column/structural
 Captive cover screws prevent loss during installation

Weather Resistance

IP66-IP67

Ring Tone

Built-in External Ringer that provides penetrating calling signal (85dBA@1meter)

Hook switch

Electronic / magnetic with no visible moving parts

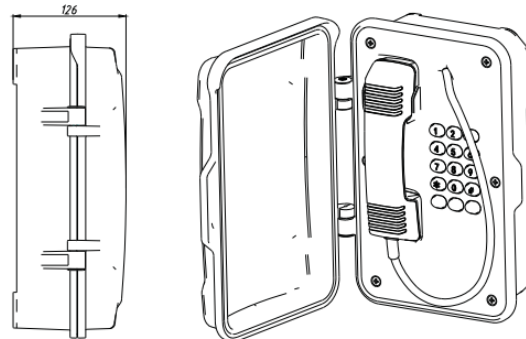
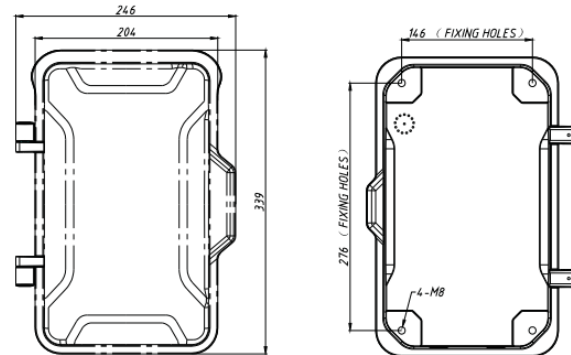
M.T.B.F.

Calculated to have an M.T.B.F. in excess of 50,000 hours using

Weight

Up to 9 kg depending on option

DIMENSIONS



(Measured in mm)

PACKAGE

Unit Size: 204*334*126mm (H*W*D)
 Packaging materials: pearl cotton, carton
 Net weight: 8KG; Gross weight: 8.8KG

APPROVALS



This mark indicates compliance with the:
 Radio & Telecommunications Terminal
 Equipment
 Directive
 2004/108/EC



This mark indicates compliance with the:
 FCC Part 15 Subpart B Class B



This mark indicates compliance with the:
 II 2G Ex e ib mb IIC T6 Gb

JREX103

Explosion-proof Telephone



- **Standard Analogue or VoIP/SIP Explosion-proof & Weatherproof Telephone**
- **Aluminum alloy die-casting body**
- **Vandal resistant handset and cord**
- **Full Keypad**
- **Inductive coupler fitted as standard for hard of hearing**
- **Wall mounting, simple installation**
- **Phone line powered (Analogue)**
- **Power-Over-Ethernet / PoE (SIP-VoIP)**
- **II 2G Ex e ib mb IIC T6 Gb**
- **II 2D Ex ib [ib] tb IIC T80 Db**
- **Zone 1, 2, 22**
- **Weather proof protection to IP66-IP67**
- **ATEX, CE, FCC, RoHs compliant**

The Explosion Proof Telephone is designed for voice communication in the hostile environment where reliability, efficiency and safety are of prime importance.

The telephone can handle the large temperature differences found outdoors, high humidity, exposure to sea water and dust Corrosive atmosphere, Explosive gases & particles, as well as mechanical wear and tear, making it perfect for use as an emergency telephone.

The unique robust handset is manufactured from molded Bulk Molding Compound and designed specifically to withstand arduous use in all environments, armored cord to provide additional resistance to vandalism or heavy industrial use.

The Explosion-proof and Weatherproof Telephones are designed for use by the chemical plant, Coal Mine, power stations, the armed services and heavy industry which require very reliable and explosion protection telephony under adverse conditions.

ANALOGUE

As a standard analogue telephone, this unit provides basic telephone functions and can be connected to any standard two-wire telephone line, including analogue PABX lines and PSTN.

Dialing

MF (tone)

Power supply

Drawn from telephone line

Programming

Can be programmed remotely by DTMF tone or use keypad

VoIP/SIP

Telephone version

Standard SIP/VOIP Telephone

SIP Protocol

SIP 2.0(Compatible with most IP PBX)

Connection

Direct connection to LAN or WAN via RJ45 connector

Power supply

Power over Ethernet

Configuration

Fully configurable through any internet browser or the on-board display

Static IP address provisioning or DHCP

JREX103

Explosion-proof Telephone

TECHNICAL SPECIFICATIONS

Explosion protection

II 2G Ex e ib mb IIC T6 Gb
 II 2D Ex ib [ib] tb IIIC T80 Db
 $-40\text{ }^{\circ}\text{C} \leq T_a \leq +60\text{ }^{\circ}\text{C}$
 Zone 1, 2, 22

Lightning / Transients

Protection to ITU-T k.21 enhanced levels

Casing Material

Die cast aluminum, epoxy powder coated.

Color

Available in four colors:
 Orange, Yellow, Red and Blue

Keypad

Weather resistant full Keypad, No. of Keys (TOTAL 15 KEYS): 0-9, *, #, Redial, Mute, Last Number Redial

Handset

With Noise canceling microphone, for effective communication from noisy areas (Armored SS cord stands up to rough treatment, optional for black curly cord)

Mounting

Wall/column/structural
 Captive cover screws prevent loss during installation

Weather Resistance

IP66-IP67

Ringing Tone

Built-in External Ringer that provides penetrating calling signal(85dBA@1meter)

Hook switch

Electronic / magnetic with no visible moving parts

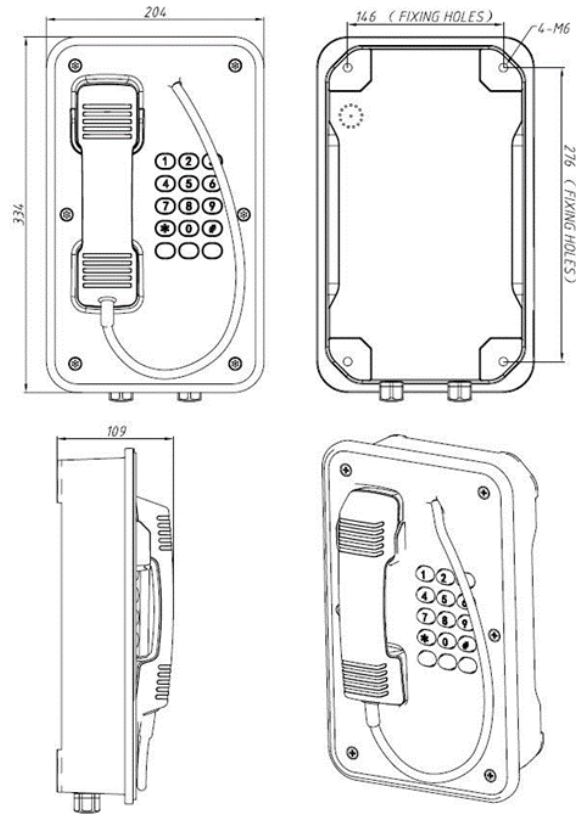
M.T.B.F.

Calculated to have an M.T.B.F. in excess of 50,000 hours using

Weight

Up to 8 kg depending on option

DIMENSIONS



(Measured in mm)

PACKAGE

Unit Size: 204*334*126mm (H*W*D)
 Packaging materials: pearl cotton, carton
 Net weight: 7.5KG; Gross weight: 8KG

APPROVALS



This mark indicates compliance with the:
 Radio & Telecommunications Terminal
 Equipment
 Directive
 2004/108/EC



This mark indicates compliance with the:
 FCC Part 15 Subpart B Class B



This mark indicates compliance with the:
 II 2G Ex e ib mb IIC T6 Gb

JREX106

Explosion-proof Telephone



The JREX106-SIP are designed to provide safe, reliable communication in hazardous areas. The telephones sets were developed for operation in the petrochemical industrial, usually used in production, transportation and refining of oil, natural gas, coal and etc. The housing is made of impact and shock-resistant GRP and even resistant to acids, alkali and lubricants. Its robust design represents a perfect “packaging” for the latest requirements for VoIP telephones combined with proven reliability for critical mission communications and high safety applications. It is designed to provide ultimate user comfort on the basis of industrial standards and decades of market leading expertise and know-how.

The telephone device features a display with integrated heating for ultra low temperature environments.

II 2G Ex e ib mb IIC T6 Gb
 II 2D Ex ib [ib] tb IIIC T80 Db
 $-40\text{ }^{\circ}\text{C} \leq T_a \leq +60\text{ }^{\circ}\text{C}$
 Zone 1 & 2 & 22

- PoE 802.3af enabled (Power-over-Ethernet) or alternate power source
 - Compatible with most SIP-based IP-PBX servers that comply with SIP RFC 3261
 - High impact thermoset resin industrial housing and ergonomic heavy-duty handset-IP66 compliant
 - Programmable with alphanumeric display and a 20-piece stainless steel keypad
 - Network web management
 - Fully configurable through any internet browser or the on-board display. Static IP address provisioning or DHCP
 - Product self-diagnostic testing available through web interface
 - Network adjustable earpiece volume and microphone sensitivity
 - Network downloadable firmware
 - Remote programming-allows you to manage your network from a central location
 - Back-lit LCD display-2 lines x 15 character: English
 - Audio modes-handset and hands-free speaker phone.
 - Corrosion resistant hardware
 - Noise canceling microphone
 - Magnetic reed hook switch to reduce parts subject to wear
 - Removable handset retainer latches on cradle
 - Large urethane coated watertight metal keypad
 - Autodial, memory, mute and menu configuration keys
 - Programmable auto hang-up timer
 - Hearing-aid compatible (HAC) receiver
 - Heavy duty curly handset cord or vandal resistant armored handset cord
 - Two M20 gland entries
 - Field repairable by authorized personnel
- Aluminum alloy die-casting body

APPLICATIONS

- Refineries
- Power Generation
- Drilling Rigs
- Pulp and Paper Mills
- Hydroelectric Facilities
- Food Processing Plants
- Warehouses
- Sewage Plants
- Chemical Plants
- Mines
- Material Sites
- Greenhouses
- Cement Plants and more

JREX106

Explosion-proof Telephone

ENGINEERING SPECIFICATIONS

Electrical Performance

Network Rate: 10/100 Mbps

Protocol: SIP (RFC 3261 Compliant)

Power Requirement:

Power over Ethernet according to IEEE 802.3af over spare cable pair or external supply, 12V DC

Power consumption PoE (class 0): 2.5 W

Connection:

Direct connection to LAN or WAN via RJ45 connector

M.T.B.F.: In excess of 50,000 hours using

Lightning / Transients:

Protection to ITU-T k.21 enhanced levels

Mechanical Specifications

Hook switch (Cradle Switch) Life:

>1 000 000 Operations

Housing Material:

High Impact Glass fiber-reinforced polyester

Handset Material:

High Impact Thermoset Resin Compound

Mounting: Desk or Wall

Ringling volume:

95dB(A)in 1m distance

Microphone:

Noise Canceling Electret microphone

Receiver:

Hearing Aid Compatible (HAC)

Display: 128 x 64 pixels

Hardware Material:

Stainless steel

Wiring Access:

2xM20 Cable Gland Entry Points

Environmental Conditions

Corrosion Resistant & Dustproof:

Full Gasket Faceplate

Operating Temperature:

-45° to +70°C

Ingress Protection Rating:

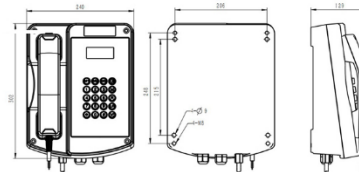
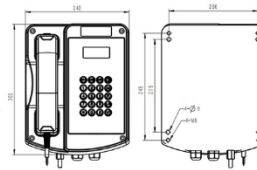
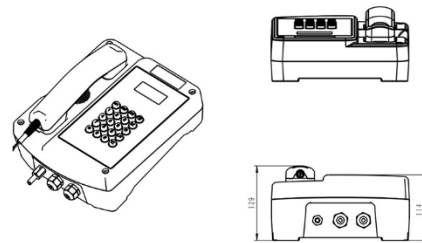
IP66 according to EN60529

Impact protection:

IK09 according to EN50102

Humidity: 0 to 95% RH

DIMENSIONS



OVERALL DIMENSIONS

PACKAGE

Unit Dimensions: 302x240x129 mm

Shipping Dimensions: 405x280x170 mm

Packaging materials: pearl cotton, carton

Net weight: 6.5KG; Gross weight: 7.5KG

APPROVALS



This mark indicates compliance with the:
Radio & Telecommunications Terminal
Equipment
Directive
2004/108/EC



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ACCESSORIES:



JR-EB-01
Explosion Proof Beacon



JR-EH-01
Explosion Proof Horn



JR-EJB-01
Explosion Proof Junction Box



JR-TH-01
Acoustic hood