

Weatherproof SIP Telephone

HNEX106-CSB-FK-SIP



Description:

Heinrich's HNEX106-CSB-FK-SIP Weatherproof SIP Telephone with LCD Display is engineered for robust and reliable communication in demanding environments. Housed within a corrosion-resistant cast aluminium case with a protective door, this telephone offers complete protection against dust and moisture ingress, ensuring long-term durability and performance. Designed specifically for use in railways, power stations, the armed services, and heavy industries.

Heinrich's HNEX106-CSB-FK-SIP Weatherproof SIP Telephone is an ideal solution for industries requiring resilient and high-quality telephony under adverse conditions.

Features:

- **Standard SIP Phone with LCD Display:** Facilitates clear and easy communication with visual feedback.
- **Weatherproof Protection:** Rated IP66 and IK10 for superior dust and moisture resistance.
- **Durable Full Keypad:** Waterproof and robust, suitable for outdoor and industrial use.
- **Convenient Redial and Recall Functions:** Includes "LR" button for last number redial and "R" for flash recall.
- **Mute Function:** "M" button allows for easy muting during calls.
- **Wall Mount Design:** Easy to install, making it adaptable for various settings.
- **Power Options:** Supports both PoE (Power over Ethernet) and external power supply (SIP-VoIP).
- **Connectivity:** Equipped with an RJ45 port for seamless SIP phone integration.
- **Accessibility Features:** Hearing impaired icons and color indicators for call notifications, additional indicators for when the door is open.
- **Protective Design:** Polycarbonate covers for electronics, silicone rubber gasket material, and SECC steel fastening bracket ensure durability.
- **Acoustic Design:** Echoic design to eliminate "standing waves" in an open flow and a large diameter 3D cast aluminium speaker grille with stainless steel mesh for speaker protection.
- **UV-Resistant Coating:** Ensures longevity even with prolonged exposure to sunlight.
- **Built-In Camera:** Enhances functionality with video capabilities.

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- **In-built Active Noise Cancellation:** Ensures clear audio by eliminating background noise.
- **Communication Modes:** Supports full open duplex and switched open duplex for versatile communication needs.
- **Custom Ring Tone:** Personalize the device with custom ringtones.
- **Audio Mixing:** Facilitates both conversation and group call functionality.
- **Automatic Gain Control:** Automatically adjusts microphone sensitivity for optimal audio levels.
- **Omnidirectional Microphones:** Capture sound from all directions, ensuring comprehensive audio pickup.

VOICE FEATURES

- **SIP 2.0 Support:** Compliant with RFC3261, ensuring compatibility with various SIP-based systems.
- **Audio Codecs:** Supports multiple codecs including G.711, G.723, G.726, G.729 for flexible audio encoding.
- **Echo Cancellation:** Supports ITU-T G.167/G.168 with 96ms hand-free support for echo-free communication.
- **Full Duplex Support:** Allows Full duplex 2-way.
- **SIP Features:** Includes SIP support: RFC 3261 (SIP base standard), RFC 3515 (SIP refer), RFC 2976 (SIP info)
- **DTMF Support:** Compatible with SIP info, DTMF relay, and RFC2833 for tone-based signaling.
- **Call Control Features:** Offers a flexible dial map and hot-line support for efficient call management.

Specification:

Model	HNEX106-CSB-FK-SIP
Power Input	24V DC & PoE (Power over Ethernet)
PoE (Power over Ethernet)	IEEE 802.3af standard, Class 0 (0.44W to 12.95 W)
Port	WAN: 10/100Base- T RJ-45 for LAN, Auto MDIX LAN: 10/100Base- T RJ-45 for PC, Auto MDIX
Power Consumption	Idle 1.8W, max 12W
SPL@1M (MAX)	101 dB
SPL@1M (open duplex)	91 dB
SPL@1M (in half duplex)	101dB
Codec	G.711A/u, G.7231 high/low, G.729, G.722
Colors	Yellow, other colors to special order
Button backlight	LED
Induction loop signal	600 Ohm
Temperature	Operating: -40°C to +70°C, Storing: -40°C to +70°C
Weather Resistance	IP66 & IK10
Ringing Tone	Shrill warble tone 90dBA @ 1 metre typical
Frequency range	200 Hz – 9000 Hz (G.722 Codec)
Internal speaker amplifier	10 W class D
Internal speaker	10 W
Ethernet connector	2XRJ45
General inputs and outputs	6 (configurable) can be customized as per your specific needs
Outputs	12mA as LED drivers
Change-over relay (NO+NC+COM)	MAX:0.5A 125AC/1A 30VDC as standard
Call indication	Icons/colors for hearing impaired

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Door open indication	Icons/colors for hearing impaired
Display contrast	20000:1
Viewing angle	160 degree
Display brightness	120 cd/m2
Display lifetime	50 000 hours/5 years
Base / frame material	3 mm / 0.12" Aluminum alloy-A413.0, AlSi12Fe, painted
Electronics cover material	Polycarbonate (translucent)
Gasket material	Silicone rubber
Fastening bracket material	SECC Steel
Button material	3mm / 0.12" Polycarbonate(transparent) Stainless steel
Button push-cycles before failure	300 000
Anechoic Design	Open flow anechoic design eliminates "standing waves"
DTMF support	RFC 2833, 2976 (SIP info)
Relative humidity	< 95% not condensing
Loudspeaker poke protection, large diameter object	3D cast aluminium speaker grille
Loudspeaker poke protection, small diameter objects	Stainless steel mesh, acoustically transparent
Protocols	Ipv4 (with DiffServ), SIP, TCP, UDP, HTTPS, TFTP, RTP, SRTP, DHCP, SNMP, ONVIF, NTP
LAN protocols	Power over Ethernet (IEEE 802.3 a-f) Network Access Control (IEEE 802.1x)
Management and operation	HTTP/HTTPS (Web configuration) DHCP and static IP. Remote automatic software upgrade. Centralized monitoring.
Advanced supervision functions	Network test, tone test, status reports etc.
SIP support	RFC 3261 (SIP base standard) RFC 3515 (SIP refer) RFC 2976 (SIP info), SIP using TLS, RFC 5630 SIPS URI scheme
UV-resistant	YES
Weight	Up to 6kg depending on option
IP Rating	IP66
IK Rating	Ik10
Video	
Image Sensor	1/2.5" RGB CMOS
Lens	F 2.0, fixed iris
Light Sensitivity	Down to 1 lux
Resolution	240 / 480p / 960x720p / 1440x1080p
Frame Rate	Up to 30 FPS in 1440x1080p
Supported Codecs	MJPEG, H.264
Digital PTZ	Yes
Digital Zoom	Up to 2x
Field of View	Horizontal : 145 degrees, Vertical: 109 degrees
Parallel video streams	6 (1x SIP H.264, 2x HTTP MJPEG, 3x RTSP (sessions))

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Processor / Chipset	
CPU Cores	4 x Cortex-A53
CPU Clock Speed	1.6 GHz
RAM	512 MB LPDDR4
Flash	1GB
Video encoder	MJPEG, H.264
Dual Image	Yes
Audio Technology	Modes: Full open duplex, switched open duplex
	Adaptive jitter buffer
	Custom Ringing Tone
	Audio Mixing – Conversation and Group Call
	Automatic gain control
Microphone Technology	Digital omnidirectional microphone

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