IP-DB

PoE IP VIDEO DOORBELL

TECHNICAL DATA SHEET

PRODUCT SUMMARY

Thank you for choosing the AtlasIED IP-DB video doorbell for your project. The IP-DB video doorbell is designed to meet the needs of the harshest environments found in commercial applications. Despite having a full metal housing and an IP66 rating, the IP-DB retains a sleek modern aesthetic that would not be out of place in a high-end residential setting. With a long list of high value features that includes a high-resolution camera with IR LEDs to cover low light environments, RFID card compatibility, on board door lock relays, back lit keypad, GPI ports for external sensors, and a high-fidelity microphone, the IP-DB is the perfect match for nearly any installation.

FEATURES

Network Features:
- Dynamic or Static IP Address.
- IEEE 802.3 10/100 Mbps Ethernet.
- IEEE 802.3af Compliant.
- IPv6 Compatible.

Audio Codec Support:
- G.711A/U, G.729A/B, iLBC, G.723.1, G.726-32K.
- G.722 Wide band Audio (64 kbits/s), Opus.

Video Codec Support:
- H.264 1080P@30fps.

Additional Features:
- Built-in HD camera with night-vision feature, adopt H.264 codec.
- Wide-angle camera: 120º (H), 60º (V).
- HD voice speech quality with built-in 2.5W speaker and Acoustic Echo Canceler.
- Programmable DDS Keys.
- Keypad: 16 keys, including:
  - 12 Number Keys.
  - 4 Function Keys .
    - Management Center.
    - Password Mode.
    - Dial.
    - Backspace.
- Configurable via web interface.
- Door Control in and out.
- Built-in TF card slot for data storage.
- RFID Cards (Support 10,000).
- RS485 Port Support.
- Outdoor – rated: High durability guarantees the highest coverage on the market according to the IP66 and IK07 standards.
- Vandal Proof: Fitted with a tamper switch that detects unauthorized opening of the device itself.
- Built-in 3 short-in detect port and 2 short-out control port
- Compatible with ONVIF standard.
- Compatible with major platforms: Asterisk, Broadsoft, 3CX.

APPLICATIONS

- Healthcare
- Corporate Centers
- Public Transportation
- Education
- Subway Stations
- Industrial / Manufacturing

The AtlasIED IP-DB is a VoIP doorbell built for deployment in the harshest environments. Equipped with a 2MP camera, back lit keypad, RFID reader, and magnetic door lock control relays the IP-DB fits perfectly into the IPX Unified Communication ecosystem. When paired with the IP-CONSOLE-GH the IP-DB can provide a video and audio communication for guests seeking access to the facility.

The architecture of the IP-DB features sturdy all metal construction that is designed to withstand both harsh weather and vandal activity. The IP-DB is built to the highest standards and is designed to pass the test of time.

The IP-DB is equipped to handle low light conditions when they occur. On board IR LEDs allow the camera to retain its high-quality performance and visitors can use the provided keypad as they are fully back lit.

With multiple ways for users to unlock doors the IP-DB is the perfect way to integrate with existing systems. For customers that utilize RFID for door access the IP-DB is setup to seamlessly integrate with existing RFID cards. If pin codes are the tool of choice for securing door access the IP-DB supports this as well.

The IP-DB is a great fit for any SIP Phone System system that needs the addition of a higher level of door security and communication. With a sleek design that is user friendly and easy to install, the IP-DB is a must have for most projects.

IP-DB

PoE IP VIDEO DOORBELL

TECHNICAL DATA SHEET

TECHNICAL SPECIFICATIONS

SYSTEM	
Type	PoE IP Video Doorbell

GENERAL PURPOSE INPUT / OUTPUT	
Relay Outputs	Qty: 2
Relay Output Type	Normally Open / Normally Closed
Max DC Voltage / Current	DC30V / 2A
Max AC Voltage / Current	AC125V / 0.5A
General Purpose Inputs	Qty: 3
Input Type	Dry Contact

AUDIO	
Microphone / Speaker Frequency Response	80Hz - 7kHz (Minimum Range)
Sampling Rate	16kHz
Supported Narrow Band Codecs	G.711A/U, G.729A/B, iLBC, G.723.1, G.726-32K
Supported Wide Band Codecs	G.722 and Opus
AEC	Full Duplex
DTMF	In-band, Out-of-Band (RFC2833/ SIP INFO)

VIDEO	
Codecs	H.264
Video Call Resolution	Main stream 1080P@30fps / Sub stream VGA@30fps.
Presence Detection / Image Sensor	Motion Detection / High intensity IR LEDs for picture lighting during dark hours with internal light sensor.
Viewing Angle	Diagonal 141°, Horizontal 120°, Vertical 60°

POWER INPUT	
PoE	IEEE 802.3af Class 3 48V
External Power Supply	12V / 1A

NETWORK	
Ethernet	IEEE 802.3 10/100 Mbps
PoE	IEEE 802.3af Compliant
IP Mode	IPv4 / IPv6 / IPv4 & IPv6
SIP Lines	2

IP-DB

PoE IP VIDEO DOORBELL

TECHNICAL DATA SHEET

TECHNICAL SPECIFICATIONS (CONTINUED)

PROTOCOLS	
IP Addressing	DHCP / Static
Auto-Registration	HTTP / Service Location Protocol
Telephony	SIP v1 (RFC2543), v2 (RFC3261) over UDP/TCP/TLS
Supported Protocols	RTP / RTCP / SRTP, STUN, DHCP, IPv6, PPPoE, L2TP, OpenVPN (Requires third-party app support), SNTP, FTP / TFTP, HTTP / HTTPS, TR-069

WEIGHTS AND DIMENSIONS	
Product Dimensions (HxWxD)	7" x 3.46" x 1.42" (177mm x 88mm x 36mm)
Shipping Dimensions (HxWxD)	2.5" x 8.875" x 4.875" (63.5mm x 222mm x 120mm)
Net Weight - lbs	1.28lb (.58kg)
Shipping Weight - lbs	1.7lb (.77kg)

WARRANTY COVERAGE	
Warranty Period	1 Year

IP-DB

PoE IP VIDEO DOORBELL

TECHNICAL DATA SHEET

ARCHITECT & ENGINEER SPECIFICATIONS

The unit shall be AtlasIED model IP-DB. The PoE indoor/outdoor IP Video and audio visitor communication system (subsequently referred to as IP Video Doorbell) shall include factory assembled 2MP camera, speaker, microphone, 16 key back lit keypad, RFID reader, motion detector, magnetic door lock control relays, logic inputs and full metal surface mount housing.

The AtlasIED IP-DB shall be capable of registering directly to a AtlasIED IP-CONSOLE-GH IP communication Administrative Control Console, or as a SIP phone directly to a VoIP communications manager or VoIP call service including on-premises and hosted infrastructure call platforms. The unit shall be compatible with most major call platforms to serve as the systems VoIP hands-free visitor communication station at secure door or gate entrances and access points.

The IP Video Doorbell shall include a Graphical User Interface (GUI) for configuration of intercom settings, call list, video camera, SIP implementation, programmable 14 DDS (Direct Station Selection) keys, RFID Cards, magnetic door lock control relays and logic inputs. The SIP implementation shall support standards G.711 a-law and u-law, G.722, OPUS, G.729A/B, iLBC, G.723.1, G.726-32K and SIPv1, SIPv2 over UDP, TCP, TLS, and RTP protocols. The unit shall support video coding H.264. The unit shall support Wiegand and RS485 interface.

The unit shall be equipped with a 2-megapixel high-definition camera with a Wide-angel view of 120º (H), 60º (V) and shall include night-vision.

The unit shall incorporate an integrated microphone, speaker and Acoustic Echo Canceler to support full duplex hands-free wide band audio (HD Audio) for maximum intelligibility. It shall include (3) logic inputs for connecting switches, infrared probes, door magnets, vibration sensors and other input devices, (2) magnetic door lock control relays, line out interface, and support 10,000 RFID Cards.

The amplifier/control board shall include a single-channel amplifier capable of producing 2.5-watts RMS when using PoE IEEE Power over Ethernet class 4 and compatible with IEEE 802.3af switch blades or 12VDC local power supply. Interconnect shall be via female RJ-45 connector mounted to the PCB.

The IP Video Doorbell surface mount housing shall be made of vandal-proof metal and include mounting screws and mounting hardware. The unit's overall dimensions shall be 7" (177mm) x 3.46" (88mm) x 1.42" (36.15mm).