



# ESI eAccess

## AC20 and AC30V Access Device Datasheet For eSIP and eCloud

The AC20 and AC30V ESI Access Devices provide a simple yet robust solution for eSIP and eCloud door access control. The ESI Access Devices have a variety of enterprise level features and the AC30V also has a video camera. The ESI Access Devices offer access control by call, code and RFID card and can be installed indoors or outdoors using a weather resistant outdoor enclosure (sold separately).



### Highlights

- ✓ Each access device comes with three RFID cards.
- ✓ Compatible with standard SIP RFC3261 protocol.
- ✓ Access Control by call, code and IC/RFID.
- ✓ All-in-One (Access Control, Intercom and Broadcasting).
- ✓ Built-in 3 Watt speaker and Full Duplex Acoustic Echo Canceller for high quality hands-free communication.
- ✓ Model **AC30V** has a built-in HD camera with backlight compensation.
- ✓ Status indicator.
- ✓ Built in WEB GUI for online maintenance and management.
- ✓ Employs standard IP/RTP/RTSP protocol for voice transmission
- ✓ The robust IP65 rated construction helps protect against dust and water intrusion.
- ✓ A weather enclosure is required for access devices installed outdoors.
- ✓ Schedule a timed task with Time Plan to lock and unlock doors.

## General

- 2 SIP Lines
- POE Capable
- Full-duplex hands-free speakerphone
- Intelligent DSS Keys (Speed Dial)
- Wall-mounting
- Integrated RFID Card reader
- Integrated connection for indoor switch
- Integrated Relay (one)
- Connections for Door Lock External Power Supply
- All-in-One: Access Control, Intercom and Broadcasting
- Access control via call, code, RFID card
- Industrial Standard Certifications: IP65, CE/FCC

## Call Features

- Intercom
- Speed Dial
- Auto-Answering (perline)
- Voice Message (on server)
- Local 3-way Conference
- Hot Line

## Access Device Features

- Open Door Log (200,000 )
- Access Table (1000 entries)
- RFID Card issues (1000 entries)
- Programmable DSS/Soft keys
- Network Time Synchronization
- Action URL / Active URI

## Audio

- Narrowband CODEC: G.711a/u, G.723.1, G.726- 32K, G.729AB
- Wideband CODEC: G.722
- Full-duplex Acoustic Echo Canceller (AEC)– Hands-free Mode, 96ms tail-length
- Voice Activity Detection (VAD) / Comfort Noise Generation (CNG) / Background Noise Estimation (BNE)
- Packet Loss Concealment (PLC)
- Dynamic Adaptive Jitter Buffer up to 300ms
- DTMF: In-band, Out-of-Band , DTMF-Relay (RFC2833) / SIP INFO

## Networking

- 802.3af PoE
- IP Configuration: Static/DHCP/PPPoE
- Network Access Control: 802.1x
- VPN: L2TP / PPTP / IPSec
- VLAN: 802.1p/q
- QoS: DSCP

## Video (Model AC30V)

- Sensor: ¼ inch color CMOS
- Pixels: 1 million

## Video continued (Model AC30V)

- Video codec: H.264
- Resolution: Main stream 1280 x 720  
Sub-stream 352 x 288 (CIF), 704 x 576 (D1)
- Viewing angle: 110 degrees (H) x 95 degrees (V)
- Minimum illumination: Color 0.1 Lux. Black and white 0.01 Lux. Does not support infrared lighting

## Protocols

- SIP 2.0 over UDP/TCP/TLS
- RTP / RTCP /SRTP
- STUN
- DHCP
- PPPoE
- 802.1x
- Open VPN
- SNTP
- FTP / TFTP
- HTTP / HTTPS
- TR069

## Deployment & Maintenance

- Auto-Provisioning via  
FTP / TFTP / HTTP / HTTPS / DHCP / TR069 / SIP PNP
- Web Management Portal
- Web-based Packet Dump
- Configuration Backup / Restore
- Entry Log Export
- Access Table Export / Import
- Firmware Upgrade
- Syslog (includes door access logs)

## Physical Specifications

- 1 DSS key
- Numeric keypad
- WAN: 10/100BASE-Tx, Auto-MDIX RJ-45
- PoE: 802.3af (Class 3) (6.49~12.95 Watts)
- Passive Switch (short-circuit output): NC/NO Contacts, MAX 30V/1A AC/DC
- Active Switch output: 12V/700mA DC
- RFID/IC Card: EM4100 (125KHz), MIFARE ONE (13.56MHz)
- 1 Indoor door interface
- Main Chipset: Broadcom
- Speaker: 4Ω/3W
- Cable Requirement: CAT5 or better
- Power Supply: 12V/1A DC or PoE
- Shell material: Metal front panel, ABS enclosure
- Protection level: IP65
- Operating Temperature: 14~140°F (-10~60°C)
- Storage Temperature: -40~158°F (-40~70°C)
- Humidity: 10~90%
- Device Weight: 10.6oz (300g)
- Gross weight: 14.8oz ( 420g)
- Device Dimensions: 6.30x3.66x1.38in (160 x 93 x 35mm)