



## SIP-enabled VoIP Indoor Emergency Intercom –DP20



Bank intercom



School intercom



Factory intercom

**VOPTech DP20 SIP Intercom, carrying VOPTech's 6+ years industrial experience in technology and product design, Combining IP technology together with industrial intercom perfectly. DP20 SIP intercom can be easily configured in varies application scenarios like bank, schools, mining, cities, etc.**

### SIP

#### SIP

The most popular and compatible standard protocol - SIP - enables delivery of worry free communication and connectivity.



#### Protection

Enclosure designed on International Protection (IP) markings to protect against intrusion – accidental or intentional - waterproofed to IP54



**Short Circuit Input&Output**  
Connect kinds of detector like mist, door lock etc. Issue alarm or report once it is triggered.



#### HD Voice

High definition voice using wideband G.722 coding produces clearer sound quality and extends the frequency range.



**External Audio Output**  
Supports 3.5mm audio interface, can connect to external high power speaker



#### Anti-tamper

Alarm sounds if/when cover is removed from the housing and reports the action to the control center.



#### Multi-function

The system is capable of performing multiple functions, i.e. intercom and and single device paging, and can be configurable with additional features.



#### Wide Range temperature adaptability

The system design adapts to operating under various environmental conditions and temperatures (supports temperatures ranging from 40 to +70 Celsius.)

### Generic

- 2 SIP Lines
- PoE Enabled
- Full-duplex speakerphone (HF)
- Intelligent DSS Keys (Speed Dial/intercom etc)
- Omnidirectional pickup
- 2 embedded short-circuit output relays
- 2 embedded short-circuit input relays
- Embedded anti-dismantlement alarm
- Record voice during the call(optional)
- All in ONE intercom and paging service and Security Linkage
- Wall-mount installation
- Multi-cast

### Call Features

- Voice Intercom
- Speed Dial(speed dial key)
- Auto-Answering (per line)
- Voice Message (on server)
- Local 3-way Conference

### Phone Features

- Support SIP 2.0 and related RFCs
- Programmable DSS keys
- Network Time Synchronization
- Action URL / Active URI

### Audio

- Wideband CODEC: G.722
- Narrowband CODEC: G.711a/u, G.723.1, G.726-32K, G.729AB
- Full-duplex Acoustic Echo Celler (AEC) – Hands free Mode, 96ms tail-length
- Voice Activity Detection (VAD) / Comfort Noise Generation (CNG) / Background Noise Estimation (BNE) / Noise Reduction (NR)
- Packet Loss Concealment (PLC)
- Dynamic Adaptive Jitter Buffer
- DTMF: In-band, Out of Band (RFC2833) / SIP INFO
- Omnidirectional pickup: pickup distance 5 m

### Networking

- 802.3af PoE
- IP Configuration: Static / DHCP / PPPoE
- Network Access Control: 802.1x
- VPN: L2TP (Basic Unencrypted) / OpenVPN
- VLAN: 802.1p/q
- QoS: DSCP

### Protocols

- SIP2.0 over UDP/TCP/TLS
- RTP/RTCP/SRTP
- STUN
- DHCP
- PPPoE
- 802.1x
- OpenVPN
- 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
- Firmware Upgrade

### Physical Specifications

- Keypad:1or2 DSS Keys (Speed Dial)
- RJ45 Ethernet Jacket x2: Network x1 (802.3AF POE Enabled), PC x1 (Bridged to Network)
- Main Chipset: Broadcom
- Passive Switch(short-circuit output): Normally Open and Normally Closed highest at 30V/1A AC/DC
- Output interface for active speaker
- Audio record output interface
- 2 embedded short circuit input interfaces
- 2 embedded short circuit output interfaces
- Speaker: 3W/4Ω
- Cables: CAT5 or better
- Power Supply: 9V~16V/1A DC or PoE
- Standby power consumption: 1.54W
- The call intercom of power consumption: 1.81W
- Shell Material: Front plate, aluminum alloy. Back plate, Cast aluminum
- Protection level: IP54
- Working Temperature: -40~70°C
- Storage Temperature: -40~70°C
- Working Humidity: 10~90%