

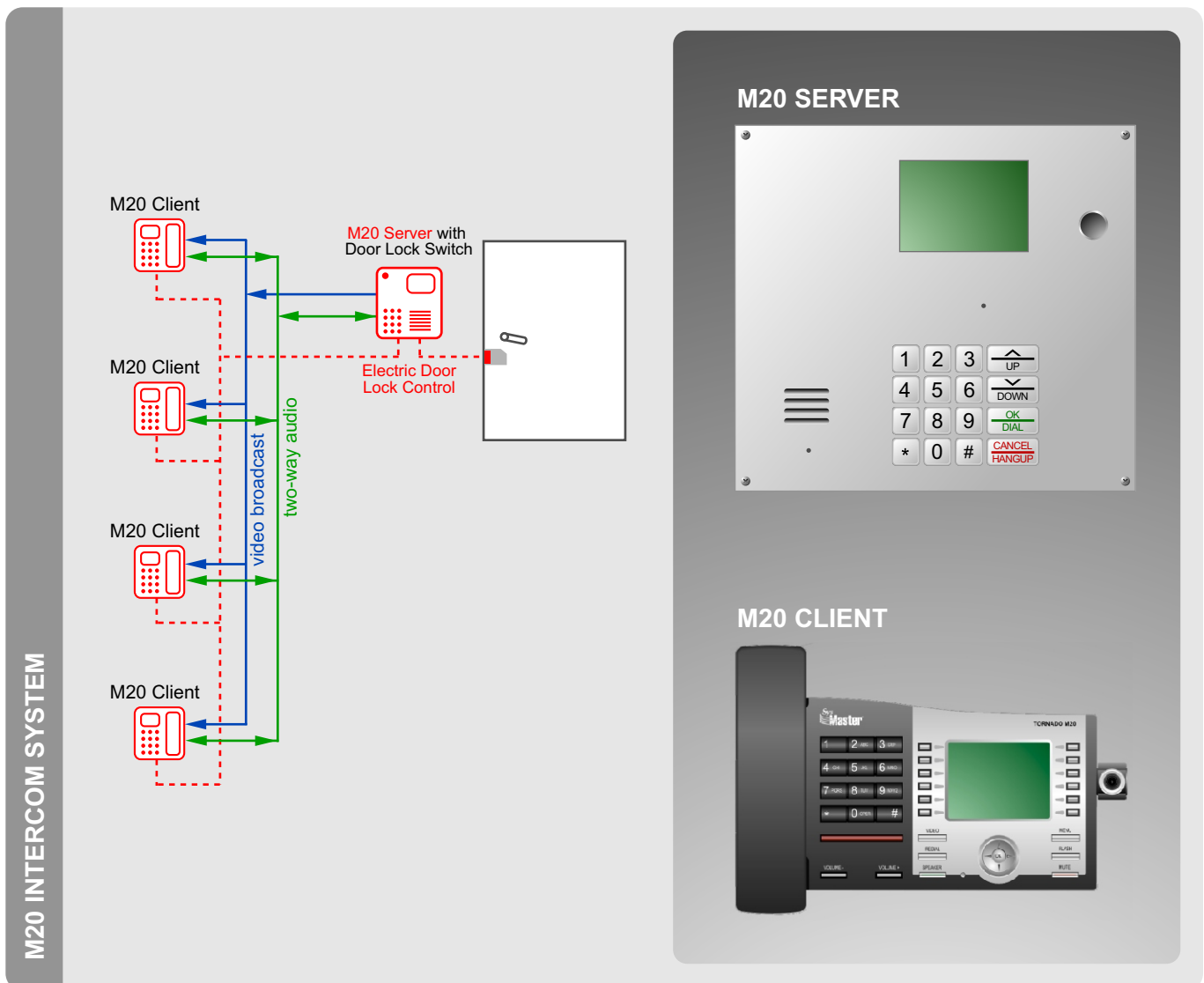
M20 Digital Intercom System

FEATURES

- Real-time video broadcast feed
- Client-to-server Audio communication
- Client-to-client Audio communication
- Real-time door control
- Auto discovery
- Phone Book and Resident List
- Advanced integrated voicemail system

System Overview

Construction company requires to install digital intercom system within the building that allow all residents to be able to visually see all visitors and at the same time communicated with them. The system should also allow the door to be opened from any one intercom client device. SysMaster M20 Digital Intercom system supports unlimited number of video intercom clients that connect to a single M20 server located at the building entrance. All clients can view in real-time all visitors, communicate via audio channels, and open the door.



M20 Digital Intercom System

Real-time Video Broadcast Feed

M20 Digital Intercom System allows real-time video broadcast. The device that is located at the building entrance has a built-in video camera that constantly broadcasts video in real-time to all devices within the intercom network. All devices located in the individual apartments/offices of the residents can receive this video broadcast and see who is standing at the door.

Client-to-server Audio Communication

M20 Digital Intercom System support audio communication form any one device (called client) located in the apartment/office to the central device (called server) located at the door. The communication is two way to allow the visitor to identify himself and communicate with the resident.

Client-to-client Audio Communication

M20 Digital Intercom System allows residents to dial their extension number and thus communicate with their neighbors via the phone. No video feed is supported during this communication. The video still displays the video feed from the server device located at the door of the building.

Real-time Door Control

M20 Digital Intercom System allows each client device to send a secure signal to the central device using the intercom network that will open the door lock. All such attempts are recorded in a log and can be retrieved if necessary. The server M20 Digital Intercom System includes a relay that will turn on/off the automatic electric door lock.

Auto Discovery

M20 Digital Intercom System includes automated audio discovery feature to allow every new device that is installed to be automatically detected by the other devices in the intercom network and included in their respective phone books. This feature allows automatic phone book updates to be automatically propagated and the intercom network to be scaleable.

Phone Book and Resident List

M20 Digital Intercom System supports phone book and resident list feature that allows every visitor to browse the resident list and be able to manually or automatically dial their access number to ring their client M20 device. The client devices can select to accept or ignore the inbound request and if necessary redirect the request to the Voicemail system.

Advanced Integrated Voicemail System

All client devices support voice mail system to allow messages to be left or retrieved in real-time. The visitors can choose to leave messages and the residents can retrieve and delete them. The system also supports custom greetings that will allow visitors to be redirected to an alternative address (for example).

M20 Digital Intercom System

Technical Specifications

Display:

- 3.5" Color LCD

Connectors/Interfaces:

- One Ethernet Port (RJ-45)
- One Video RCA Analog Port
- One Stereo Audio RCA Analog Port
- One USB 1.1 Port (Type A)
- WiFi/Wireless 2.4Ghz 802.11b Interface

Data Networking:

- MAC address (IEEE 802.3)
- IPx4 - Internet Protocol Version 4 (RFC 791)
Upgradeable to v6 (RFC 1883)
- ARP - Address Resolution Protocol (RFC 826)
- DNS - A Record (RFC1706), SRV Record (RFC 2782)
- DHCP - Dynamic Host Configuration Protocol (RFC 2131)
- ICMP - Internet Control Message Protocol (RFC 792)
- TCP - Transmission Control Protocol (RFC 793)
- UDP - User Datagram Protocol (RFC 798)
- RTP - Real Time Protocol (RFC 1889)
- DiffServ (RFC 2475), Type of Service - TOS (RFC 791/1349)
- SNMP - Simple Network Time Protocol (RFC 2030)

Voice and Video Codecs:

- MPEG4/SP
- MP3
- G.711 (A-law and μ -law)
- G.711 Annex I
- G.726 (16/24/32/40 kbps)
- G.729, G.729A
- G.726-32

Voice Gateway:

- SIP v2 - Session Initiation Protocol Version 2 (RFC 3261, 3262, 3263, 3264, 3265, 3842)
- SIP Proxy Redundancy - Dynamic via DNS SRV, A Records
- Re-registration with Primary SIP Proxy Server
- Secure (Encrypted) Calling via Pre-Standard Implementation of Secure RTP
- Codec Name Assignment
- Dynamic Payload
- Adjustable Audio Frames per Packet
- DTMF: In-band and Out-band (RFC 2833)
- Flexible Dial Plan Support with Interdigit Timers and IP Dialing
- Call Progress Tone Generation
- Adaptive Jitter Buffer
- Frame Loss Concealment
- Full Duplex Audio
- Echo Cancellation - (G.165/G.168) up to 128ms
- VAD - Voice Activity Detection with Silence Suppression
- Attenuation / Gain Adjustments
- Flash Hook Timer
- MWI - Message Waiting Indicator Tones
- VMWI - Via FSK
- Polarity Control
- Hook Flash Event Signaling
- Caller ID Generation (Name and Number) - Bellcore, DTMF, ETSI
- Music on Hold Client (Downloadable MOH Content)

Power:

- 5V, 2A - External

Dimensions:

- 10" (W) x 6" (H) x 5" (D)



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