



SIP PUBLIC ADDRESS SYSTEM INDOOR / OUTDOOR SPEAKERS

(SIP, ONVIF, HTTP API, PoE+, 50Watt and many more)



Company Profile

TONMIND TECHNOLOGY LIMITED (TONMIND), is a high tech company and professional in providing IP based audio solution since 2014. With more than 10-year experience, Tonmind produces excellent network speakers, SIP PCB and PA software to the customers worldwide. It has wide application in school, retail, mall, commercial building, office, hotel, Large venues and hospital, etc.

With continuous technological innovation, Tonmind has been exploring the improvement and breakthrough of product performance and committed to supply cost-effective, consistent and reliable IP Audio to business partners.

Core Strength

- Over 10-year R&D experience
- Exclusive technical support
- Quick market response
- Customization service

Factory & Certificate



Product Line



Ceiling/Wall Mount IP Speakers
w/wo Built-In microphone



Explosion proof & Outdoor Horn Speaker
w/wo Built-In microphone



Pendant & Projector IP Speaker
w/wo Built-In microphone



SIP-T20
SIP Paging Adaptor



Paging Microphone
6/8 Lines



IP PA
Software

Tonmind Explosion Proof Horn Speaker SIP-S23

1. Compatible with VoIP and SIP devices (IP PBX, IP Phone) via standard SIP protocol
2. Compatible with IP Camera VMS/NVR systems via ONVIF for audio integration
3. Built-in 15W amplifier with high SPL for clear and powerful sound output
4. PoE power supply, simplifying installation with a single network cable
5. Supports pre-recorded message playback for announcements and alarms
6. Supports RTP multicast as an alternative to SIP backend systems
7. Explosion-proof, IP65-rated aluminum housing, suitable for harsh industrial environments



Specification:

Audio

Decoding	OPUS 48KHz, MP3 44.1KHz, G.722-ADPCM 16KHz, G.711-PCMU 8KHz, G.711-PCMA 8KHz, G726 8KHz, GSM 8KHz, LPCM-16bit-Stereo/Mono 44.1KHz,
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Speaker

Max SPL	125 dB
Frequency Response	300Hz – 5kHz
Frequency Range	200Hz – 5kHz
Harmonic Distortion	≤5% (1kHz)
Signal to Noise Ratio	80 dB

Network

Security	Password protection, IP address filtering, Digest authentication, User access log, Firewall
Network Protocol	SIP, ONVIF, HTTP, HTTPS, IPv4, TLS, RTSP, RTP, RTCP, DHCP, DNS, NTP, TCP, UDP, IGMP, ICMP, ARP
Network Interface	10/100 Base-TX, RJ45
	Support SIP protocol for integration with VoIP systems, integrated with SIP/PBX.
VoIP	Support SIP features: secondary/backend SIP server, IPv4 (IPv6 in development). Support codecs: OPUS, G722, G711U, G711A.

Amplifier

Amplifier Description	Built-in 15W Amplifier
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General

Material	Die-cast aluminum housing (IP65), Metal steel mounting bracket
Rate Power	15W
Power Supply	PoE
Network Cable	Cat5, 1m
Atmospheric Pressure	80 kPa – 110 kPa
Operating Temperature	-20°C to +50°C
Operating Humidity	≤ 95%
Installation	Wall Mounted
Dimensions	180 × 240 mm
Net Weight	1.6 kg
Languages	English
Warranty	2 years
Package Includes	Explosion Proof Horn Speaker Quick Guide

Tonmind Explosion Proof Horn Speaker SIP-S23T

1. Compatible with VoIP and SIP devices (IP PBX, IP Phone) via standard SIP protocol
2. Compatible with IP Camera VMS/NVR systems via ONVIF for audio integration
3. Built-in 30W amplifier with high SPL for clear and powerful sound output
4. PoE power supply, simplifying installation with a single network cable
5. Supports pre-recorded message playback for announcements and alarms
6. Supports RTP multicast as an alternative to SIP backend systems
7. Explosion-proof, IP65-rated aluminum housing, suitable for harsh industrial environments



Specification:

Audio	
Decoding	OPUS 48KHz, MP3 44.1KHz, G.722-ADPCM 16KHz, G.711-PCMU 8KHz, G.711-PCMA 8KHz, G726 8KHz, GSM 8KHz, LPCM-16bit-Stereo/Mono 44.1kHz
Speaker	
Max SPL	112 dB
Frequency Response	300Hz – 5kHz
Frequency Range	200Hz – 5kHz
Harmonic Distortion	≤5% (1kHz)
Signal to Noise Ratio	80 dB
Network	
Security	Password protection, IP address filtering, Digest authentication, User access log, Firewall
Network Protocol	SIP, ONVIF, HTTP, HTTPS, IPv4, TLS, RTSP, RTP, RTCP, DHCP, DNS, NTP, TCP, UDP, IGMP, ICMP, ARP
Network Interface	10/100 Base-TX, RJ45
SIP Features	<p>Supports the SIP protocol for integration with VoIP systems and SIP/PBX platforms.</p> <p>Supports secondary/backend SIP server, IPv4 (IPv6 in development).</p> <p>Supports codecs: OPUS, G722, G711U, G711A.</p> <p>SIP DTMF (RFC 2976, RFC 2833/RFC 4733)</p>
Amplifier	
Amplifier Description	Built-in 30W Amplifier
General	
Material	Die-cast aluminum housing (IP65), Metal steel mounting bracket
Explosion-proof Marking	Ex db IIC T6 Gb
Rate Power	30W
Power Supply	PoE
Network Cable	Cat5, 1m
Atmospheric Pressure	80 kPa – 110 kPa
Operating Temperature	-20°C to +50°C
Operating Humidity	≤ 95%
Installation	Wall Mounted
Dimensions	180 × 240 mm
Net Weight	1.6 kg
Languages	English
Warranty	2 years
Package Includes	Explosion Proof Horn Speaker Quick Guide

Tonmind 50W IP Horn Speaker SIP-S25V

1. Built-in 50W amplifier for powerful and clear audio output.
2. Max SPL 128 dB for long-distance sound coverage.
3. Supports SIP protocol for VoIP paging integration.
4. ONVIF compatible for VMS and NVR connectivity.
5. PoE and DC power supply options for flexible installation.
6. Durable IP66 aluminum housing for outdoor environments.
7. Supports multiple audio decoding formats for versatile streaming.



Specification:

Audio	
Decoding	OPUS 48KHz, MP3 44.1KHz, G.722-ADPCM 16KHz, G.711-PCMU 8KHz, G.711-PCMA 8KHz, G726 8KHz, GSM 8KHz, LPCM-16bit-Stereo/Mono 44.1kHz
Speaker	
Max SPL	128dB
Frequency Response	150Hz-8kHz
Network	
Security	Password protection, IP address filtering, Digest authentication, User access log, Firewall
Network Protocol	SIP, ONVIF, HTTP, HTTPS, IPv4, TLS, RTSP, RTP, RTCP, DHCP, DNS, NTP, TCP, UDP, IGMP, ICMP, ARP
Network Interface	10/100 Base-TX, RJ45
	Supports the SIP protocol for integration with VoIP systems and SIP/PBX platforms.
SIP Features	Supports secondary/backend SIP server, IPv4 (IPv6 in development).
	Supports codecs: OPUS, G722, G711U, G711A.
	SIP DTMF (RFC 2976, RFC 2833/RFC 4733)
Amplifier	
Amplifier Description	Built-in 50W Amplifier
General	
Operating Temperature	-30°C — +60°C
Operating Humidity	5%-85%
Material	Aluminum (IP66)
Rate Power	50W
Power Supply	DC24V
Interface	RJ45, DC Power Input
Installation	Bracket Mount
Dimensions	Dia 16inch
Net Weight	3.4kg
Languages	English
Warranty	2 years
Package Includes	IP Horn Speaker Quick Guide

Tonmind IP Outdoor Horn Speaker Series

SIP-S21 | SIP-S21H | SIP-S21M | SIP-S21T — Product Comparison Datasheet



Specification	SIP-S21 15W Horn Speaker	SIP-S21H 15W Horn Speaker	SIP-S21M 30W Horn Speaker	SIP-S21T 30W Horn Speaker
Key Features				
Two-Way Intercom	No	Yes	Yes	No
Built-in Microphone	No	Yes	Yes	No
AEC / AGC / ANR	No	Yes	Yes	No
ONVIF Support	Yes	Yes	Yes	No
HTTP Control / Alarm In	Yes	Yes	Yes	Yes
Schedule Function	No	Yes	Yes	No
Pre-recorded Messages	Yes	No	No	No
Web Firmware Upgrade	No	No	No	Yes
Audio & Speaker				
Amplifier Power	15W	15W	30W	30W
Max SPL	113 dB	113 dB	120 dB	120 dB
Frequency Response	300Hz ~ 8KHz	300Hz ~ 8KHz	350Hz ~ 8KHz	350Hz ~ 8KHz 100Hz ~ 18KHz
Frequency Range	500-2KHz ±10dB 400-12KHz ±20dB	500-2KHz ±10dB 400-12KHz ±20dB	500-2KHz ±10dB 400-12KHz ±20dB	500-2KHz ±10dB 400-12KHz ±20dB
Harmonic Distortion	0.1@1kHz	0.1@1kHz	0.1@1kHz	0.1@1kHz
Signal to Noise Ratio	91 dB	91 dB	91 dB	91 dB
Audio Codecs				
Supported Codecs	OPUS, MP3, G.722, G.711 PCMU/PCMA	OPUS, MP3, G.722, G.711 PCMU/PCMA	OPUS, MP3, G.722, G.711 PCMU/PCMA	OPUS, MP1/2/3, G.722, G.711 A/u-Law, GSM, Linear PCM 16bit
Network & VoIP				
Network Interface	10/100 Base-TX, RJ45	10/100 Base-TX, RJ45	10/100 Base-TX, RJ45	10/100 Base-TX, RJ45
SIP Accounts	2	2	2	2 (+ backup server)
RTP Multicast	Yes	Yes	Yes	Yes
Protocols	SIP, ONVIF, HTTP, IPv4, DHCP, RTSP, RTP, RTCP, TCP, UDP, ARP, FTP, TFTP, NFS, NTP	SIP, ONVIF, HTTP, IPv4, DHCP, RTSP, RTP, RTCP, TCP, UDP, ARP, FTP, TFTP, NFS, NTP	SIP, ONVIF, HTTP, IPv4, DHCP, RTSP, RTP, RTCP, TCP, UDP, ARP, FTP, TFTP, NFS, NTP	SIP, HTTP, IPv4, DHCP, RTSP, RTP, RTCP, TCP, UDP, ARP, FTP, TFTP, NFS (opt: SIPS/TLS, HTTPS, IPv6, SRTP)
Security	Password, IP filter, Digest auth, Log, Firewall	Password, IP filter, Digest auth, Log, Firewall	Password, IP filter, Digest auth, Log, Firewall	Password, IP filter, Digest auth, Log
General				
Material / IP Rating	ABS / IP67	ABS / IP67	ABS / IP67	ABS / IP67
Power Supply	PoE or DC 12-24V	PoE or DC 12V/24V	PoE or DC 12V/24V	PoE or DC 12-24V
Operating Temp.	-30°C to +60°C	-30°C to +60°C	-30°C to +60°C	-30°C to +60°C
Connectors	PoE, DC Power	Alarm in, Audio in, DC Power, PoE, TF Card (Opt.)	Alarm in, Audio in, DC Power, PoE, TF Card (Opt.)	PoE, DC Power
Dimensions (mm)	225×165×240	225×165×240	285×205×290	285×205×290
Net Weight	1.3 KG	1.3 KG	2 KG	2 KG
Warranty	2 Years	2 Years	2 Years	2 Years

Tonmind 15W IP Sound Projector SIP-S51H

1. Transmit excellent sound for music and announcement.
2. PoE eliminates need for local power supply.
3. 48K OPUS Audio Codec enables excellent sound quality.
4. Compatible with VoIP, SIP devices (IPPBX, IP Phone) via SIP.
5. Compatible with IP Camera VMS via ONVIF.
6. Support Pre-recorded messages.
7. Support HPPT API for alarm in transmit.
8. Built-in MIC



Specification:

Audio	
Codec	OPUS 48 kHz, MP3 44.1 kHz, G.722 ADPCM 16 kHz, G.711 PCMU 8 kHz, G.711 PCMA 8 kHz
Built-in Microphone	Yes
Speaker	
Max SPL	102dB
Frequency Response	130Hz~17KHz
Frequency Range	500-2KHZ +-10dB 400-12KHZ +-20dB
Harmonic Distortion	0.1@1kHz
Signal to Noise Ratio	91dB
Network	
Security:	Password protection, IP address filtering, Digest authentication, User access log, firewall
Network Protocol	SIP, ONVIF, HTTP, IPv4, DHCP, RTSP, RTP, RTCP, TCP, UDP, ARP, FTP, TFTP, NFS, NTP
Network Interface	10/100 Base-TX, RJ45
	Support for SIP protocol for intergration with VoIP systems, intergrated with SIP/PBX.
VoIP	2 SIP Accounts, SIP Direct IP Call, RTP Multicast
	Codec: OPUS, MP3, G.722, PCMU, PCMA
Amplifier	
Amplifier Description	Built-in 15W Amplifier
General	
Operating Temperature	-30℃ — +60℃
Operating humility	5%-85%
Material	ABS (IP55 water-proof)
Rate Power	15W
Power Supply	PoE or DC12V
Connector	Alarm in, DC Power, PoE
Installation	Wall Mounted
Dimensions	D135*205mm
Net Weight	1.7 KG
Languages	English
Warranty	2 years
Package Includes	IP Sound Projector User Manual

Tonmind 30W IP Pendant Speaker SIP-S61T

1. Transfer loud and excellent sound.
2. 48K OPUS, AEC, AGC, ANR.
3. Compatible with VoIP, SIP devices (IPPBX, IP Phone) via SIP.
4. Compatible with IP Camera VMS via ONVIF.
5. HTTP Control, Schedule.
6. 30W Amplifier, PoE Power Supply
7. Support Pre-recorded messages event



Specification:

Audio

Codec	OPUS 48 kHz, MP3 44.1 kHz, G.722 ADPCM 16 kHz, G.711 PCMU 8 kHz, G.711 PCMA 8 kHz
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Speaker

Max SPL	91dB
Frequency Response	70Hz~20KHz
Frequency Range	500-2KHZ +-10dB 400-12KHZ +-20dB
Harmonic Distortion	0.1@1kHz
Signal to Noise Ratio	91dB

Network

Security:	Password protection, IP address filtering, Digest authentication, User access log, firewall
Network Protocol	SIP, ONVIF, HTTP, IPv4, DHCP, RTSP, RTP, RTCP, TCP, UDP, ARP, FTP, TFTP, NFS, NTP
Network Interface	10/100 Base-TX, RJ45
	Support for SIP protocol for intergration with VoIP systems, intergrated with SIP/PBX.
VoIP	2 SIP Accounts, SIP Direct IP Call, RTP Multicast
	Codec: OPUS, MP3, G.722, PCMU, PCMA

Amplifier

Amplifier Description	Built-in 30W Amplifier
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General

Operating Temperature	'-30°C — +60°C
Operating humility	5%-85%
Material	ABS
Rate Power	30W
Power Supply	PoE
Connector	PoE
Installation	Pendant
Dimensions	D185*250mm
Net Weight	2.1KG
Languages	English
Warranty	2 years
Package Includes	IP Pendant Speaker User Manual

Tonmind 30W IP Pendant Speaker SIP-S61M

1. Transfer loud and excellent sound.
2. 48K OPUS, AEC, AGC, ANR
3. Compatible with VoIP, SIP devices (IPPBX, IP Phone) via SIP.
4. Compatible with IP Camera VMS via ONVIF.
5. HTTP Control, Alarm in, Schedule
6. 30W Amplifier, PoE Power Supply
7. Support Pre-recorded messages event
8. Built-in MIC



Specification:

Audio

Codec	OPUS 48 kHz, MP3 44.1 kHz, G.722 ADPCM 16 kHz, G.711 PCMU 8 kHz, G.711 PCMA 8 kHz
Built-in Microphone	Yes

Speaker

Max SPL	91dB
Frequency Response	70Hz~20KHz
Frequency Range	500-2KHZ +-10dB 400-12KHZ +-20dB
Harmonic Distortion	0.1@1kHz
Signal to Noise Ratio	91dB

Network

Security:	Password protection, IP address filtering, Digest authentication, User access log, firewall
Network Protocol	SIP, ONVIF, HTTP, IPv4, DHCP, RTSP, RTP, RTCP, TCP, UDP, ARP, FTP, TFTP, NFS, NTP
Network Interface	10/100 Base-TX, RJ45
	Support for SIP protocol for intergration with VoIP systems, intergrated with SIP/PBX.
VoIP	2 SIP Accounts, SIP Direct IP Call, RTP Multicast
	Codec: OPUS, MP3, G.722, PCMU, PCMA

Amplifier

Amplifier Description	Built-in 30W Amplifier
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General

Operating Temperature	-30°C — +60°C
Operating humidity	5%-85%
Material	ABS
Rate Power	30W
Power Supply	PoE
Connector	PoE
Installation	Pendant
Dimensions	D185*250mm
Net Weight	2.1KG
Languages	English
Warranty	2 years
Package Includes	IP Pendant Speaker User Manual

Tonmind IP Wall Speaker Series

SIP-S11 | SIP-S11M | SIP-S11T — Product Comparison Datasheet



Specification	SIP-S11 15W Wall Speaker	SIP-S11M 30W Wall Speaker	SIP-S11T 30W Wall Speaker
Key Features			
Two-Way Intercom	No	Yes	No
Built-in Microphone	No	Yes	No
ONVIF Support	No	Yes	Yes
HTTP API / Alarm In	No	Yes	Yes
Pre-recorded Messages	No	Yes	Yes
Web Firmware Upgrade	Yes	No	No
Backup SIP Server	Yes	Yes	No
Audio & Speaker			
Amplifier Power	15W	30W	30W
Max SPL	101 dB	105 dB	105 dB
Frequency Response	80Hz ~ 20KHz	80Hz ~ 20KHz	80Hz ~ 20KHz
Frequency Range	500-2KHz ±10dB 400-12KHz ±20dB	500-2KHz ±10dB 400-12KHz ±20dB	500-2KHz ±10dB 400-12KHz ±20dB
Harmonic Distortion	0.1@1kHz	0.1@1kHz	0.1@1kHz
Signal to Noise Ratio	91 dB	91 dB	91 dB
Audio Codecs			
Supported Codecs	OPUS, MP1/2/3, G.722, G.711 A/u-Law, GSM, Linear PCM 16bit	OPUS, MP3, G.722, G.711 PCMU/PCMA	OPUS, MP3, G.722, G.711 PCMU/PCMA
Network & VoIP			
Network Interface	10/100 Base-TX, RJ45	10/100 Base-TX, RJ45	10/100 Base-TX, RJ45
SIP Accounts	2 (+ backup server)	2 (+ backup server)	2
RTP Multicast	Yes	Yes	Yes
Protocols	SIP, HTTP, IPv4, DHCP, RTSP, RTP, RTCP, TCP, UDP, ARP, FTP, TFTP, NFS (opt: SIPS/TLS, HTTPS, IPv6, SRTP)	SIP, ONVIF, HTTP, IPv4, DHCP, RTSP, RTP, RTCP, TCP, UDP, ARP, FTP, TFTP, NFS, NTP	SIP, ONVIF, HTTP, IPv4, DHCP, RTSP, RTP, RTCP, TCP, UDP, ARP, FTP, TFTP, NFS, NTP
Security	Password, IP filter, Digest auth, Log	Password, IP filter, Digest auth, Log, Firewall	Password, IP filter, Digest auth, Log, Firewall
General			
Material / IP Rating	ABS / IP55	ABS / IP55	ABS / IP55
Power Supply	PoE or DC 12-24V	PoE or DC 12V/24V	PoE or DC 12-24V
Operating Temp.	-30°C to +60°C	-30°C to +60°C	-30°C to +60°C
Installation	Wall Mounted	Wall Mounted	Wall Mounted
Dimensions (mm)	296 x 196 x 157	296 x 196 x 157	296 x 196 x 157
Net Weight	2.4 KG	2.5 KG	2.5 KG
Warranty	2 Years	2 Years	2 Years

Tonmind 15W Sip Ceiling Speaker SIP-S01

1. Transmit excellent sound for music and announcement.
2. PoE eliminates need for local power supply.
3. 48K OPUS Audio Codec enables excellent sound quality.
4. Support web firmware upgrade for easy maintenance.
5. Standard SIP protocol to compatible with other SIP devices.
6. Support RTP Multicast as alternation of SIP backend system.



Specification:

Audio

Decoding	OPUS (48KHz 8Kbps - 512Kbps Mono/Stereo), MP1 (44.1KHz 128Kbps Stereo), MP2 (44.1KHz 128Kbps Stereo), MP3 (44.1KHz 128Kbps Stereo), G.711 A-Law (8KHz 64Kbps), G.711 u-Law (8KHz 64Kbps), G.722 ADPCM (16KHz 64Kbps), Linear PCM 16bit Stereo 44.1KHz, Linear PCM 16bit Mono 44.1KHz, GSM (8KHz 13Kbps)
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Speaker

Max SPL	96dB
Frequency Response	100Hz ~ 18KHz
Frequency Range	500-2KHZ +-10dB 400-12KHZ +-20dB
Harmonic Distortion	0.1@1kHz
Signal to Noise Ratio	91dB

Network

Security	Password protection, IP address filtering, Digest authentication, User access log
Network Protocol	SIP, HTTP, IPv4, DHCP, RTSP, RTP, RTCP, TCP, UDP, ARP, FTP, TFTP, NFS (Can add SIPS/TLS, HTTPS, IPv6, SRTP if required)
Network Interface	10/100 Base-TX, RJ45
VoIP	Support SIP protocol for intergration with VoIP systimes, intergrated with SIP/PBX. Support SIP features: secondary/backend SIP server, IPv4 (IPv6 futher). Support codecs: OPUS, G711U, G711A, GSM, MP3, WAV.

Amplifier

Amplifier Description	Built-in 15W Amplifier
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General

Material	Metal
Rate Power	15W
Power Supply	PoE or DC 12V/24V
Installation	In Ceiling
Dimensions	200 x 90 mm
Net Weight	1 KG
Languages	English
Warranty	2 years
Package Includes	Network Ceiling Speaker User Manual

Tonmind 15W IP Ceiling Speaker with MIC SIP-S01M



1. Two-way intercom communication.
2. PoE eliminates need for local power supply.
3. 48K OPUS Audio Codec enables excellent sound quality.
4. Compatible with VoIP, SIP devices (IPPBX, IP Phone) via SIP.
5. Compatible with IP Camera VMS via ONVIF.
6. Support Pre-recorded messages.
7. Support HPPT API for alarm in transmit.

Specification:

Audio

Codec	OPUS 48 kHz, MP3 44.1 kHz, G.722 ADPCM 16 kHz, G.711 PCMU 8 kHz, G.711 PCMA 8 kHz
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Speaker

Max SPL	96dB
Frequency Response	100Hz ~ 18KHz
Frequency Range	500-2KHZ +-10dB 400-12KHZ +-20dB
Harmonic Distortion	0.1@1kHz
Signal to Noise Ratio	91dB

Network

Security	Password protection, IP address filtering, Digest authentication, User access log, firewall
Network Protocol	SIP, ONVIF, HTTP, IPv4, DHCP, RTSP, RTP, RTCP, TCP, UDP, ARP, FTP, TFTP, NFS, NTP
Network Interface	10/100 Base-TX, RJ45 Support for SIP protocol for intergration with VoIP systems, intergrated with SIP/PBX.
VoIP	2 SIP Accounts, SIP Direct IP Call, RTP Multicast Codec: OPUS, MP3, G.722, PCMU, PCMA

Amplifier

Amplifier Description	Built-in 15W Amplifier
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MIC

Built-in MIC	Yes
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General

Material	Metal
Rate Power	15W
Power Supply	PoE or DC 12V/24V
Installation	In Ceiling
Dimensions	200 x 90 mm
Net Weight	1 KG
Languages	English
Warranty	2 years
Package Includes	Network Ceiling Speaker User Manual

Tonmind 50W IP Ceiling Speaker SIP-S02

1. Transmit excellent sound for music and announcement.
2. PoE eliminates need for local power supply.
3. 48K OPUS Audio Codec enables excellent sound quality.
4. Compatible with VoIP, SIP devices (IPPBX, IP Phone) via SIP.
5. Compatible with IP Camera VMS via ONVIF.
6. Support Pre-recorded messages.
7. Support HPPT API for alarm in transmit.



Specification:

Audio	
Codec	OPUS 48 kHz, MP3 44.1 kHz, G.722 ADPCM 16 kHz, G.711 PCMU 8 kHz, G.711 PCMA 8 kHz
Speaker	
SPL (1W/1M)	89dB
Frequency Response	80Hz ~ 20KHz
Frequency Range	500-2KHZ + -10dB 400-12KHZ + -20dB
Harmonic Distortion	0.1@1kHz
Impedance	8Ω
Network	
Security	Password protection, IP address filtering, Digest authentication, User access log, firewall
Network Protocol	SIP, ONVIF, HTTP, IPv4, DHCP, RTSP, RTP, RTCP, TCP, UDP, ARP, FTP, TFTP, NFS, NTP
Network Interface	10/100 Base-TX, RJ45
	Support for SIP protocol for intergration with VoIP systems, intergrated with SIP/PBX.
VoIP	2 SIP Accounts, SIP Direct IP Call, RTP Multicast Codec: OPUS, MP3, G.722, PCMU, PCMA
Amplifier	
Amplifier Description	Built-in 50W Amplifier
General	
Material	ABS
Rate Power	50W
Power Supply	PoE or DC 12V/24V
Installation	In Ceiling
Dimensions	Diameter 230 x 160 mm
Net Weight	1.9 KG
Languages	English
Warranty	2 years

Tonmind SIP Paging Adapter SIP-T20

1. Two-way intercom communication
2. Support 48K OPUS Audio Codec
3. SIP & Onvif protocol compatibility
4. Pre recorded message(WAV/MP3)
5. Alarm: GPIO, HTTP URL, and relay out
6. MIC, headset and speaker interface
7. Reset and volume control



Specification:

Audio

Codec OPUS 48 kHz, MP3 44.1 kHz, G.722 ADPCM 16 kHz, G.711 PCMU 8 kHz, G.711 PCMA 8 kHz

Network

Security Password protection, IP address filtering, Digest authentication, User access log, firewall

Network Protocol SIP, ONVIF, HTTP, IPv4, DHCP, RTSP, RTP, RTCP, TCP, UDP, ARP, FTP, TFTP, NFS, NTP

Network Interface 10/100 Base-TX, RJ45

Support for SIP protocol for intergration with VoIP systems, intergrated with SIP/PBX.

VoIP 2 SIP Accounts, SIP Direct IP Call, RTP Multicast

Codec: OPUS, MP3, G.722, PCMU, PCMA

Amplifier

Amplifier description Built-in 15W Amplifier

General

Material Metal

Power Supply PoE or DC 12V/24V

Interface 1* MIC input, 1* Headset output, 1* Speaker output, 2* GPIO Alarm input, 1* GPIO Alarm output, 2* Relay Alarm output

Dimensions 112mm *105mm * 29mm

Weight 250g

Languages English

Warranty 2 years

Package includes SIP Paging Adapter
User Manual

Tonmind IP Paging Microphone SIP-M20

1. 8 SIP lines
2. Android system, 8G flash, WiFi
3. RTP multicast paging
4. Real-time monitoring
5. Support FTP server, USB disk music
6. 8.0-inch touch screen, 1280*800 resolution
7. 2 Audio-in, 1 Audio-out



Specification:

Network Interface	RJ45
Network Protocol	SIP
Codec	OPUS 48 kHz, MP3 44.1 kHz, G.722 ADPCM 16 kHz, G.711 PCMU 8 kHz, G.711 PCMA 8 kHz
WiFi	2.4G WiFi
USB	USB 2.0
Speaker	5W
Audio Interface	2 Audio In, 1 Audio Out, 1 USB, 2 GPIO In, 1 GPIO Out
Volume Rotary Knob	MIC (microphone), MIX (background voice), SPK (speaker), OUT(audio input)
Power Supply	DC 12V 2A
Power Consumption	≤24W
Touch Screen Size	8-inch
Screen Resolution	1280*800
Screen View Angle	178°
Operating System	Android 5.1
Working Temperature	-10°C~45°C
Function	8 SIP Lines, IP Direct Call, RTP Multicast Paging, Real-time monitoring, FTP server, USB disk music, Easy Contacts Control
Color	Black
Material	Cast Aluminum Panel +Cold Rolled Sheet Shell
Dimensions	284mm x 170mm x 60mm
Weight	1.8 KG
Languages	English
Warranty	2 years
Package Includes	IP Paging Microphone User Manual

Tonmind IP Paging Microphone SIP-M30

1. 6 SIP lines
2. Android system, 16G EMMC, WiFi
3. RTP multicast paging
4. Real-time monitoring
5. Support HTTP server, USB disk music
6. 7.0-inch touch screen, 1024*600 resolution, HDMI interface
7. 25 quick dial



Specification:

Network Interface	RJ45
Network Protocol	SIP
Codec	OPUS 48 kHz, MP3 44.1 kHz, G.722 ADPCM 16 kHz, G.711 PCMU 8 kHz, G.711 PCMA 8 kHz
WiFi	2.4G WiFi
USB	USB 2.0
Speaker	5W
Audio Interface	1 USB
Power Supply	DC 12V 1.5A
Power Consumption	≤24W
Touch Screen Size	7-inch
Screen View Angle	178°
Operating System	Android 7.1
Working Temperature	-10°C~45°C
Function	6 SIP Lines, IP Direct Call, RTP Multicast Paging, Real-time monitoring, HTTP server, USB disk music, quick dial
Color	Black
Material	Cast Aluminum Panel +Cold Rolled Sheet Shell
Dimensions	258mm x 154mm x 62mm
Weight	1.3 KG
Languages	English
Warranty	2 years
Package Includes	IP Paging Microphone User Manual

IP Speaker Software Tonmind Audio Manager

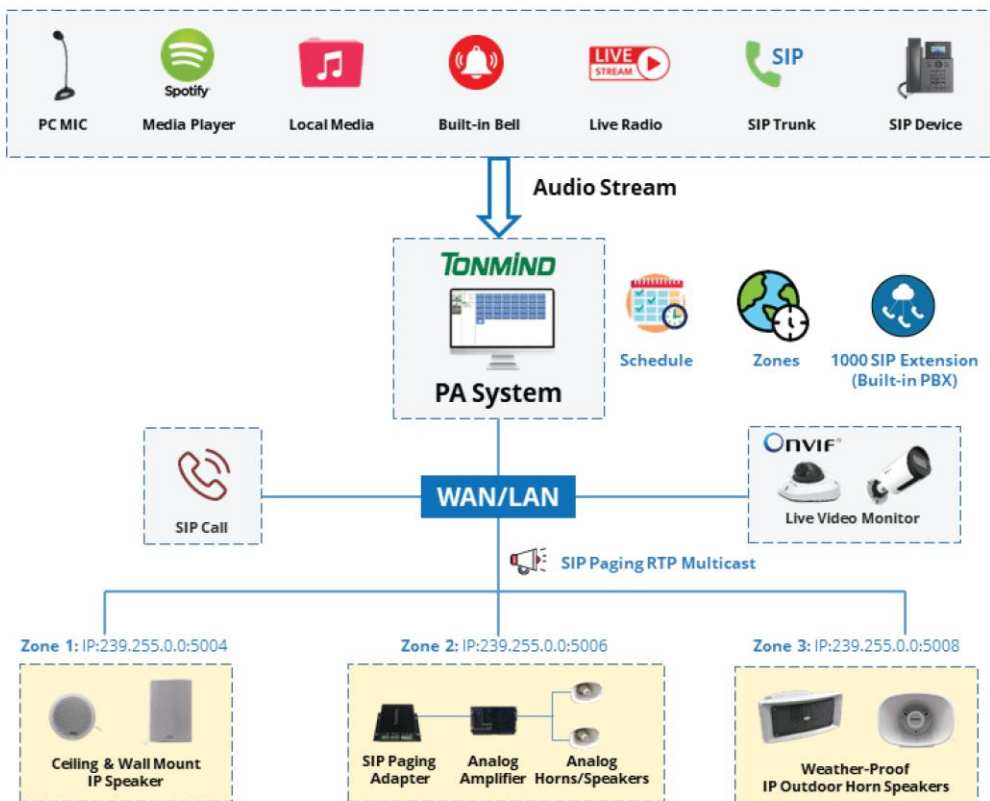
1. Easy manageable audio system.
2. Support RTP Multicast.
3. Support built-in bell ringing.
4. Multi zones management.
5. Multi kinds of audio streams.
6. Flexible schedule configuration.
7. Compatible with universal windows music players.
8. One single user interface for entire Tonmind network audio management.
9. Combine background music with scheduled and live announcements easily and efficiently.



Overview

Tonmind Audio Manager is an audio broadcast software based on IP multicast. It's adopted to be used in LAN and supports auto scan batch setting of Tonmind IP Speaker and SIP Paging Adapter. It can play various audio sources from SIP call, live radio, local media player, universal windows media player (for example, Spotify, iTunes, VLC, etc.) via RTP Multicast. Users can easily set and control zones, contents, rings, volume and scheduling, especially used in school, retail or commercial centers.

Time to Switch to IP PA System from Analog Technology !



PA System Software Tonmind PA System Pro

1. Efficient manageable audio system.
2. Support RTP Multicast.
3. Support SIP extensions.
4. Support built-in bell ringing.
5. Multi zones management.
6. Multi kinds of audio streams.
7. Flexible schedule configuration.
8. Compatible with all windows music players.
9. Provide all-in-one unified IP audio solutions.
10. Manage and control various PA System excellently.



Overview

Tonmind PA System Pro is an audio broadcast software that converts multi audio input to SIP extension broadcasting and RTP Multicast. It can manage and control various PA System professionally. PA System Pro is the upgraded version of PA System Lite. They have same functions except that PA System Pro adds server and client end, thus supports multi-user control.

Tonmind Audio Manager VS Tonmind PA System Lite VS Tonmind PA System Pro

	Tonmind Audio Manager	Tonmind PA System Lite	Tonmind PA System Pro
Buit-in SIP Server	N/A	YES	YES
C/S Architecture	N/A	N/A	YES
SIP Extension	N/A	1000	1000
Multi-user Control	N/A	N/A	YES
RTP Multicast	YES	YES	YES
Functions	Zones, Contents, Rings, Scheduling, Volume	Zones, Contents, Rings, Scheduling, Volume	Zones, Contents, Rings, Scheduling, Volume

PA System Software Tonmind PA System Lite

1. Efficient manageable audio system.
2. Support RTP Multicast.
3. Support SIP extensions.
4. Support built-in bell ringing.
5. Multi zones management.
6. Multi kinds of audio streams.
7. Flexible schedule configuration.
8. Compatible with all windows music players.
9. Provide all-in-one unified IP audio solutions.
10. Manage and control various PA System excellently.



Overview

Tonmind PA System Lite is a audio broadcast software with built-in SIP server. It provides all-in-one unified IP audio solution. It can support SIP extension broadcast. It can play various audio sources from SIP call, live radio, local media player, universal windows media player (for example, Spotify, iTunes, VLC, etc.) via RTP Multicast. Users can easily set and control zones, contents, rings, volume and scheduling. It's perfect to be used in School PA System, Commercial PA System, Transportation PA System, Hotel PA System, Health Care PA System, etc.

Tonmind Audio Manager VS Tonmind PA System Lite VS Tonmind PA System Pro

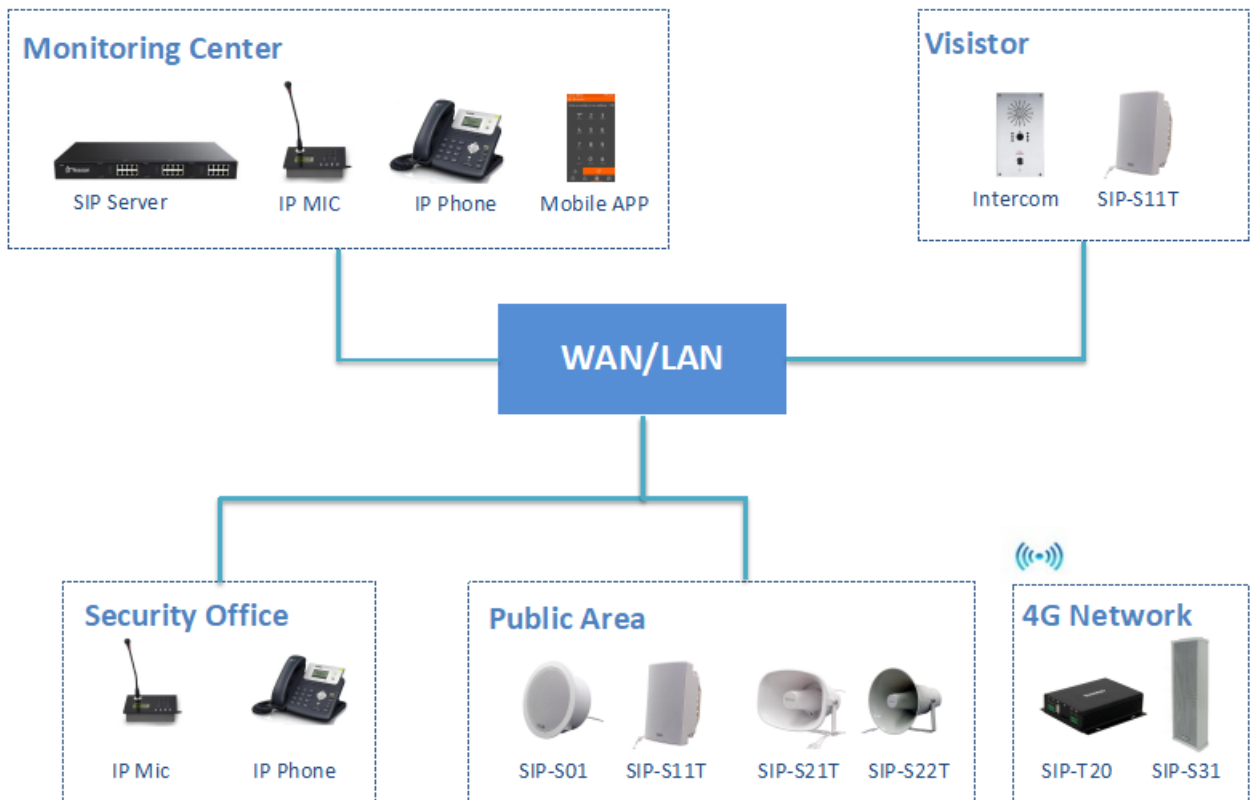
	Tonmind Audio Manager	Tonmind PA System Lite	Tonmind PA System Pro
Buit-in SIP Server	N/A	YES	YES
C/S Architecture	N/A	N/A	YES
SIP Extension	N/A	1000	1000
Multi-user Control	N/A	N/A	YES
RTP Multicast	YES	YES	YES
Functions	Zones, Contents, Rings, Scheduling, Volume	Zones, Contents, Rings, Scheduling, Volume	Zones, Contents, Rings, Scheduling, Volume

Solutions

PA System in Commercial Building

Features:

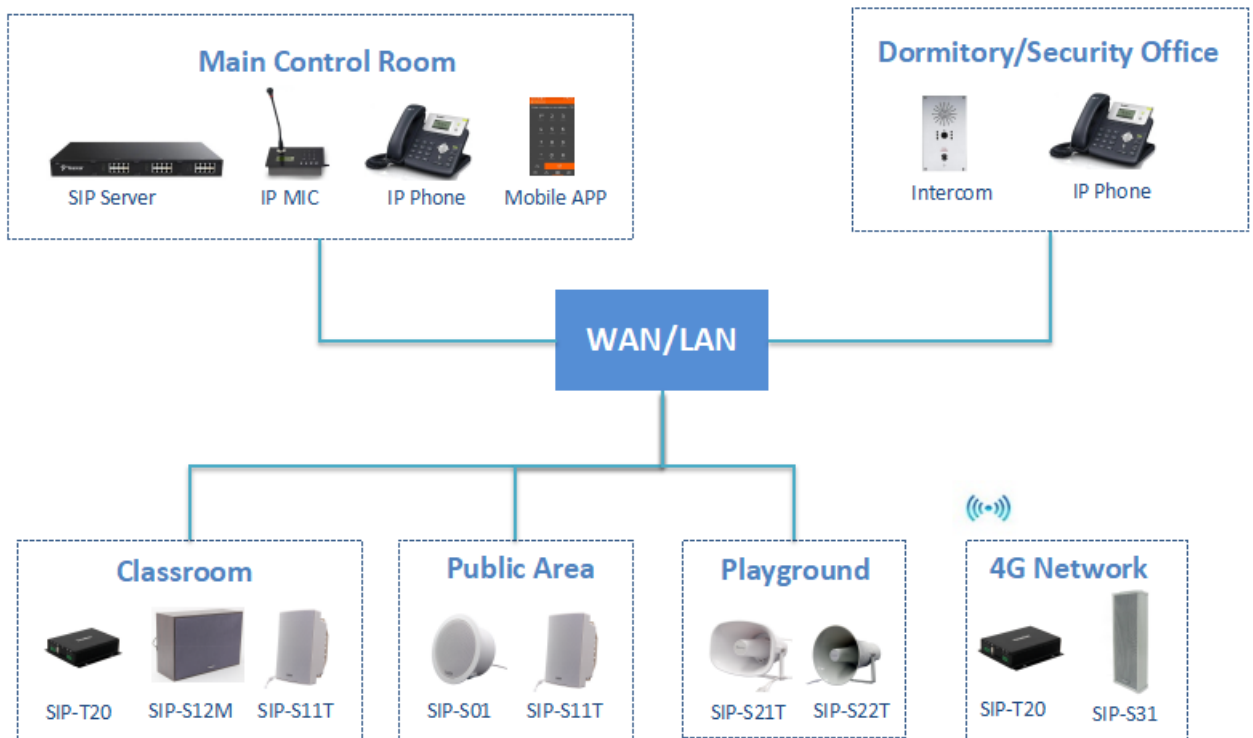
1. **Background Music:** Play music to all or part of the buildings.
2. **Broadcasting:** Broadcast to single or multiple zone.
3. **Public Address:** Make live or scheduled announcements in different zones.
4. **Fire Alarm Linkage:** The system supports linkage to fire alarm system to broadcast so as to reduce loss of life and property.



PA System in School

Features:

1. **Bell Play:** Daily bell timeable can be programmed in system and to be played automatically.
2. **Broadcasting:** Various audio sources can be played to designated zones simultaneously.
3. **Teaching Audio on Demand:** The teaching audio file on server is available on demand via IP terminal in classroom. It supports single play, loop play, segments play, fast forward, fast backward, rebroadcast.
4. **Internal Call:** The interior departments of school can have video call, meeting mode and normal mode. It supports recording simultaneously.
5. **Security Linkage:** The emergency alarm button supports linkage to security department, no-response transfer and audio/video recording.

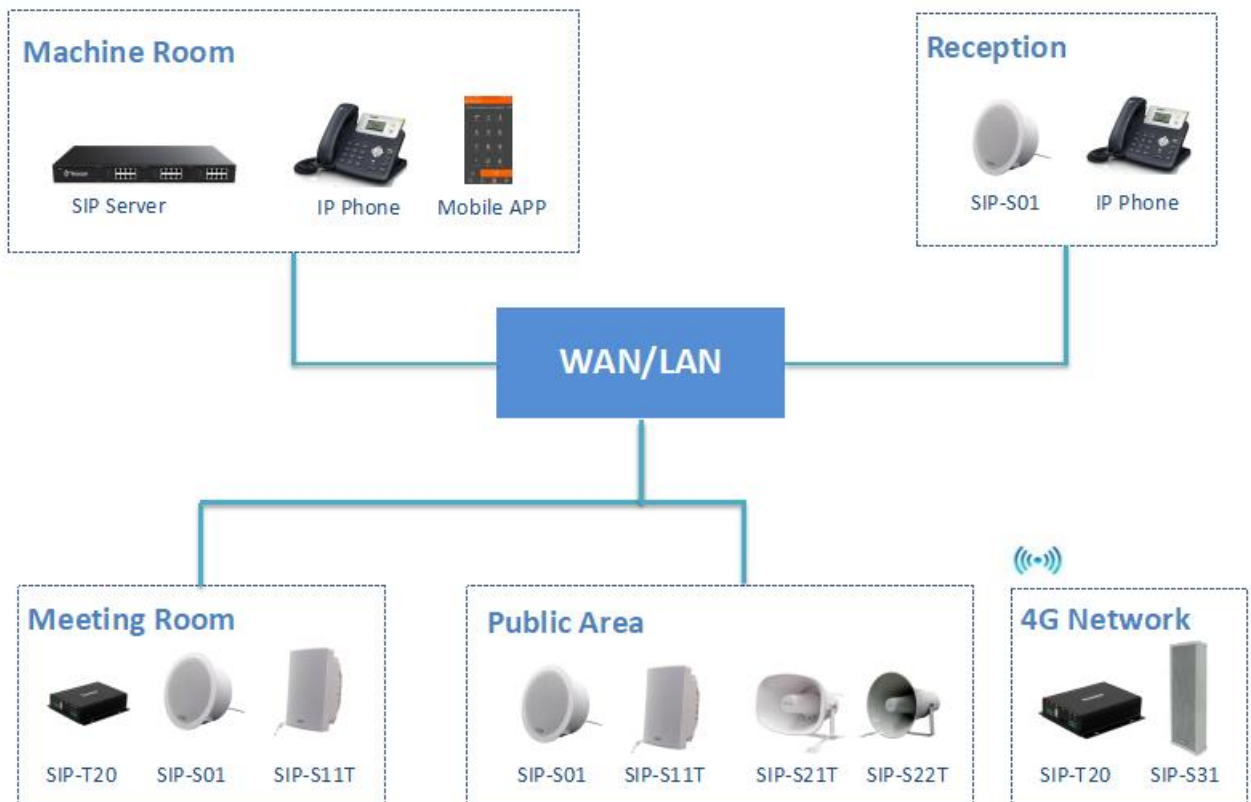


Solutions

PA System in Office

Features:

1. **Background Music:** Play music to all or part of the departments.
2. **Broadcasting:** Broadcast to single or multiple zone.
3. **Public Address:** Make live or scheduled announcements in different zones.
4. **Fire Alarm Linkage:** The system supports linkage to fire alarm system to broadcast so as to reduce loss of life and property.

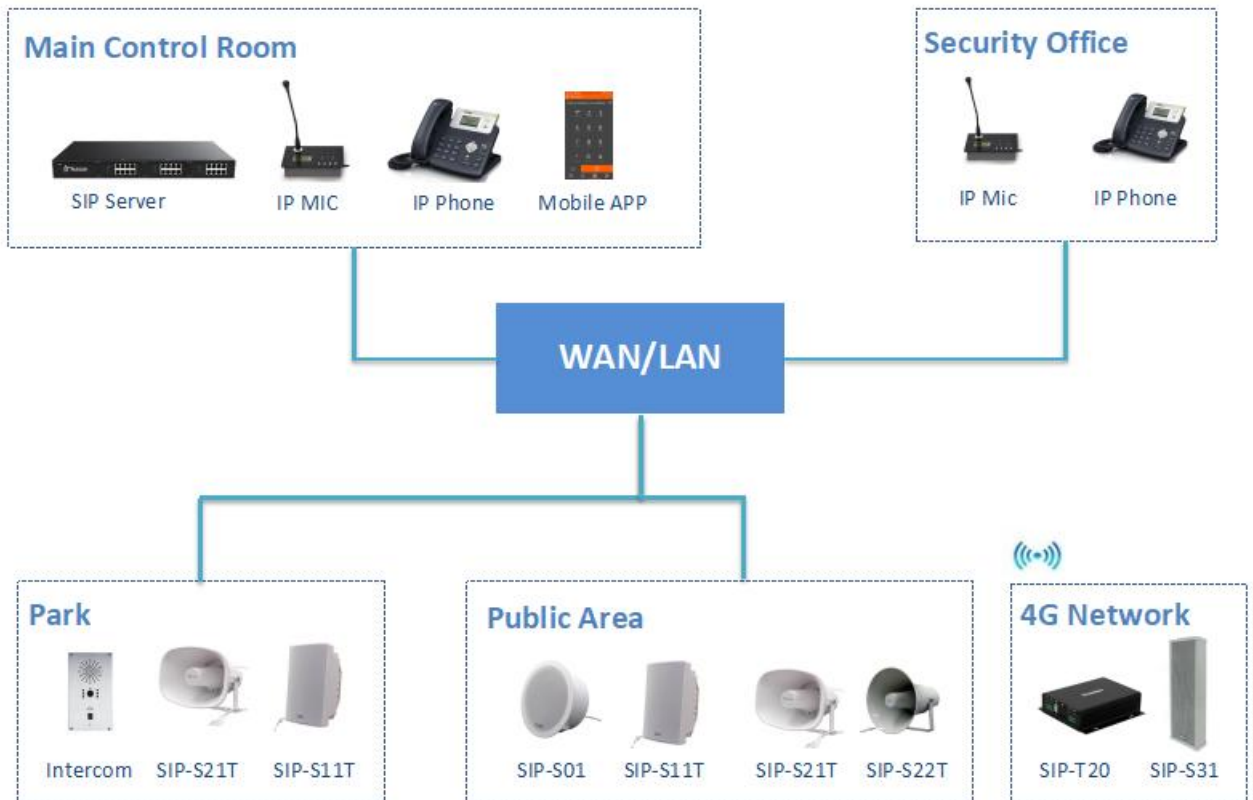


Solutions

PA System in Large Venues

Features:

1. **Background Music:** Play music to all or part of the venues.
2. **Broadcasting:** Broadcast to single or multiple zone.
3. **Public Address:** Make live or scheduled announcements in different zones.
4. **Fire Alarm Linkage:** The system supports linkage to fire alarm system to broadcast so as to reduce loss of life and property.

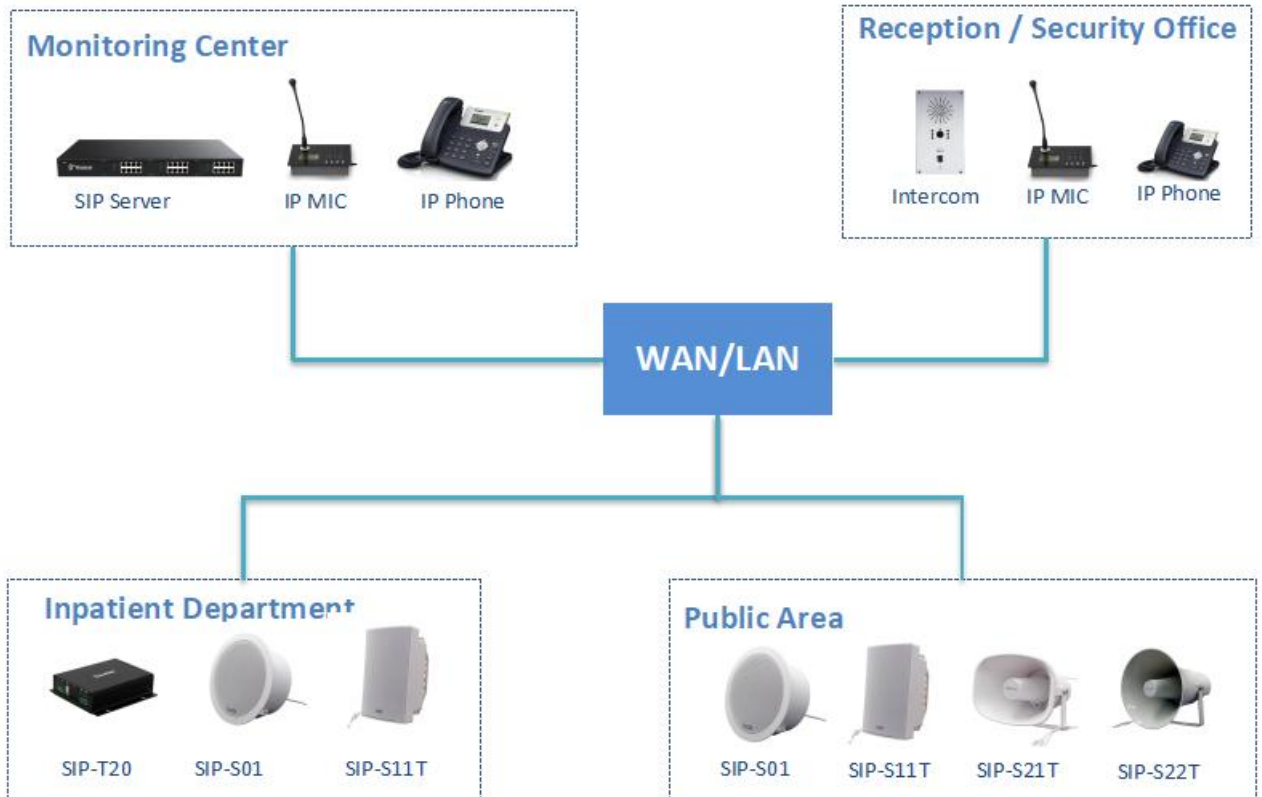


Solutions

PA System in Hotel

Features:

1. **Background Music:** Play different music in parts of hotels, such as lobby, dining hall, guestrooms, etc.
2. **Broadcasting:** Broadcast to single or multiple zone.
3. **Public Address:** Make live or scheduled announcements in different zones.
4. **Sub-zone:** The system supports sub-zone control.
5. **Fire Alarm Linkage:** The system supports linkage to fire alarm system to broadcast so as to reduce loss of life and property.

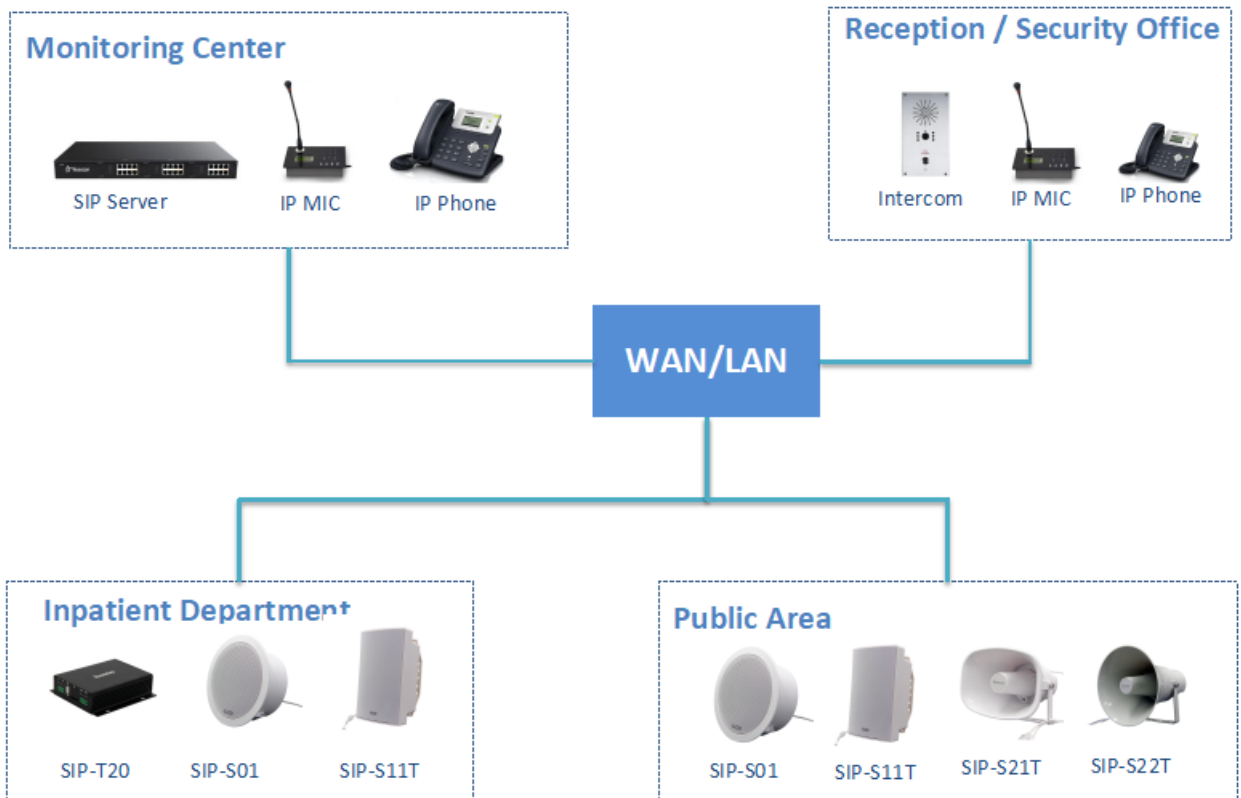


Solutions

PA System in Hospital

Features:

1. **Broadcasting:** Broadcast to single or multiple zone.
2. **Public Address:** Make live or scheduled announcements in different zones.
3. **Sub-zone :**The system supports sub-zone control.
4. **Security Linkage:** The emergency alarm button supports linkage to security department,no-response transfer and audio/video recording.



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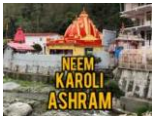
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Sarala Mandir, Odisha



Deoghar Mandir, Jharkhand



Kainchi Dham (Neem Karoli)



Dhiraj Dham, Nathdwara



Kedarnath Shrine



Eastern Peripheral Highway



Aligarh-Agra Expressway



Purvanchal Expressway



Haldwani Bus Stand



Chennai Shopping Mall



Ranchi Matrix Mall



Sardar Patel Zoological Park



United Sigma Care Hospital



FOR SALE CONTACT

Cohesive Technologies Pvt. Ltd.

Corporate Office: CS-4, 5 & 6, 4th Floor, Ansal Plaza, Sector 3, Vaishali, Ghaziabad (U.P.) - 201010, India.

Contact No: +91 120 4830000, +91 7290000544

Registered Office: 169, 1st Floor Patparganj Industrial Area, Delhi-110092, India

Email: info@cohesiveglobal.com, info@grandstreamindia.com

Web: www.cohesiveglobal.com, www.grandstreamindia.com

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