SPON

Bank
Audio System Solution

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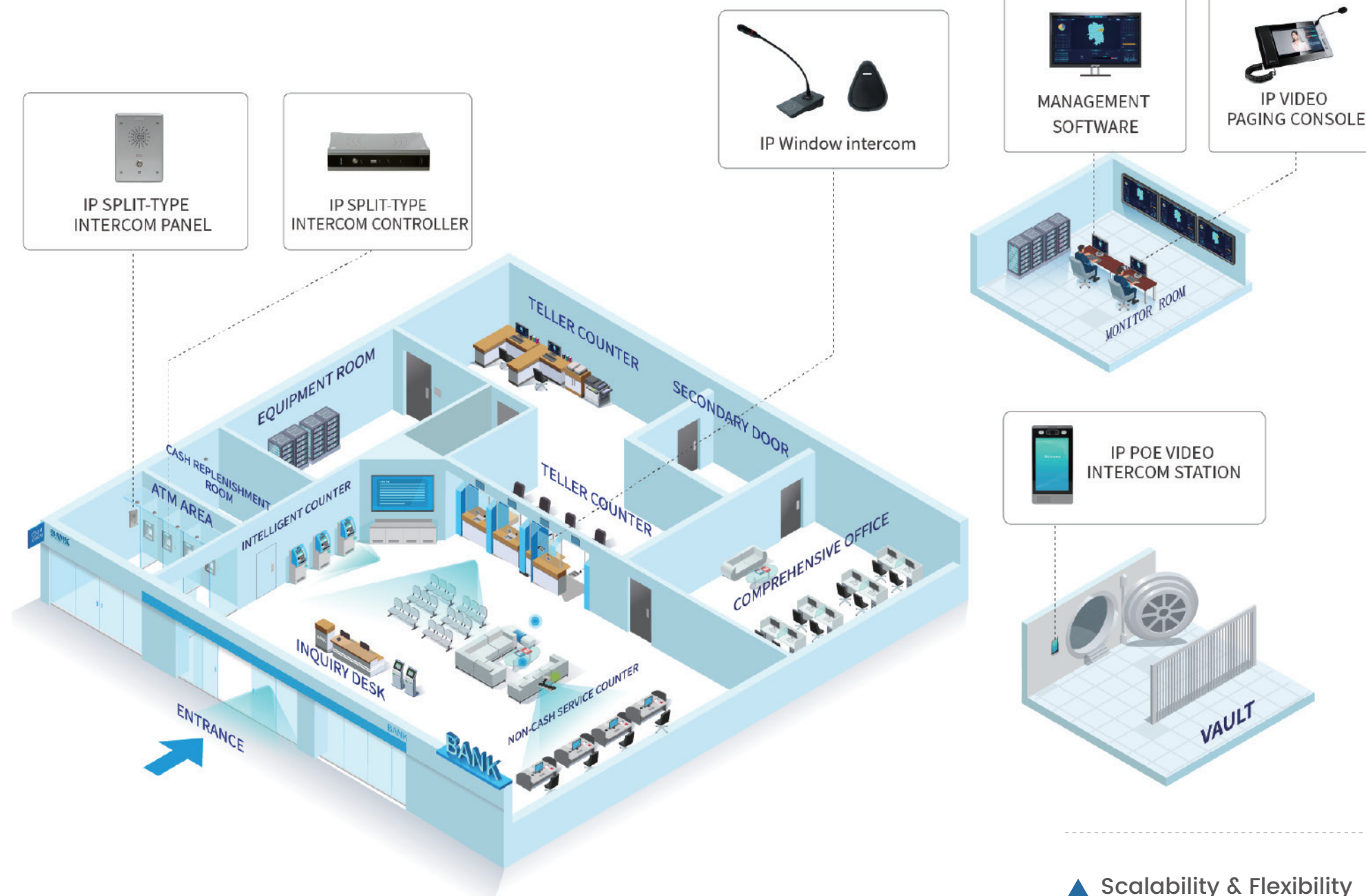**Tel:** +86 731 8557 0190

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Openness & Integration

Enhanced Security

Scalability & Flexibility

IP SPLIT-TYPE INTERCOM PANEL

IP SPLIT-TYPE INTERCOM CONTROLLER

IP Window intercom

MANAGEMENT SOFTWARE

IP VIDEO PAGING CONSOLE

MONITOR ROOM

IP POE VIDEO INTERCOM STATION

VAULT

TELLER COUNTER

SECONDARY DOOR

EQUIPMENT ROOM

CASH REPLENISHMENT ROOM

ATM AREA

INTELLIGENT COUNTER

TELLER COUNTER

COMPREHENSIVE OFFICE

INQUIRY DESK

ENTRANCE

BANK

NON-CASH SERVICE COUNTER

System Overview
SPON IP Audio System

SPON Bank's IP PA and intercom solution employs cutting-edge XCoIP technology which is based on standard SIP, transmitting audio and video signals in the form of data packets over both local and wide area networks. This approach offers features such as unrestricted transmission distance, and immunity to interference. These attributes greatly enhance the bank's security and management capabilities, facilitating the progression towards intelligent security in the banking .

Solution Key Benefits
Simplified and Efficient Audio Solutions

▲ **Reliability & Maintainability**

The solution employs a multi-link mechanism to ensure sustained system stability and long-term functionality.

▲ **Interference Resistance**

System design accounts for environmental factors, ensuring resilience against external interferences and temperature fluctuations.

▲ **Security**

Technical security engineering is a priority, emphasizing system protection against threats, disasters, and emergencies. Equipment selection prioritizes security over performance, ensuring robust defense against unauthorized intrusions.

▲ **Scalability & Flexibility**

Designed for future adaptability, the system can be expanded, upgraded, and modified to cater to evolving IT trends and user requirements.

▲ **Cost-effectiveness & Practicality**

Balancing cutting-edge technology with practicality, the system ensures cost-effective product allocation without compromising functionality or innovation.

▲ **Openness & Integration**

Adhering to industry standards, the system allows seamless integration with other security platforms.

Solution Applications
Versatile Applications of SPON Audio System

▲ 3. Cash Counter

Modern cash counters are typically equipped with counter partitions, obstructing clear communication between customers and operators. SPON's IP Window Intercom Kit effectively solves this issue. When customers wish to communicate with operators, operators can open the internal microphone to facilitate effective communication.

▲ 1. Control Room

SPON Management Software is deployed in the control room to achieve unified management, registration, naming, data distribution, and status display of various terminals.
IP Video Paging Console are deployed so that the operator can fast respond to emergency call from self-service bank ATM , vault ect.

▲ 2. Vault

IP visual intercom terminals are deployed in vaults to enable one-touch calling for assistance to the vault or control center.
In the event that staff members need to enter the cash room or vault, they can make a call to request remote door opening from central operators.

▲ 4. ATM Location

IP Split-Type Audio Intercom is placed near ATM s. When customers encounter card retention or emergencies while withdrawing money, they can use one key quick call to call the center for assistance.

AUDIO MANAGEMENT PLATFORM
XC-9000

▲ KEY FEATURES

UNIFIED MANAGEMENT AND USER INTERFACE	· **B/S software architecture:** centralized management of all IP intercom and PA devices. · **User-friendly web interface:** all critical system information displayed on the Dashboard. · **Versatile Events:** Creation and scheduling of timed events, alarm events, and customizable event combinations. · **Mobile app Management:** PA system management and user account management, including operation authority settings.
PA AND INTERCOM FLEXIBILITY	· **Various Task Form:** Supports multiple real-time PA tasks using server sound card, files, terminals, and speech synthesis. · **Multiple Calling way:** User-defined call transfer, answer, and call priority settings. · **Online Database:** Upload functionality for audio files and pre-recorded messages to the media library. · **Seamless Compatibility:** Integration with third-party VOIP phones using SIP trunk for seamless VOIP system connection.
SYSTEM MONITORING AND INTEGRATION	· **Operation Log:** Call-log and event-log recording and inquiry features for efficient monitoring. · **API Flexibility:** Standard HTTP API documentation to facilitate integration with other systems and third-party development.

IP WINDOW INTERCOM KIT
DWT-6502AB

▲ TECHNICAL PARAMETERS

Power Supply	DC 12V/1.5A
Network Protocol	TCP/IP, UDP, ARP, ICMP, IGMP,FTP
Audio Codec	PCM/AAC
Audio Sampling Rate	8kHz–32kHz
S/N (Signal-to-Noise) Ratio	≥90dB
Interface	1×RJ45 Ethernet Port, 1×Power Input , 1×Recording Port , 1× external and internal connector

▲ KEY FEATURES

DESIGN & USABILITY ENHANCEMENTS	· **Touch button:** Features a noiseless, full-touch button design for easy cleaning and disinfection. · **Cable Management:** Integrated system for a neat, clutter-free workspace. · **Sleek Metal Design:** Professional cavity structure that prevents resonance for enhanced device performance.
AUDIO QUALITY & TAILORED SETTINGS	· **Advanced Sound Technology:** Intelligent sound source detection with ambient noise reduction and automatic volume adjustment. · **Customizable Audio Modes:** Three scene modes to fine-tune audio quality in different environments. · **Pure Sound Output:** Specialized design ensures natural and undistorted sound.
CONNECTIVITY & OPERATIONAL FUNCTIONALITY	· **Unified Cable Solution:** Combines power, network, and recording functionalities in one cable. · **FTP Voice Messaging:** Supports personalized voice messages for improved customer interaction. · **Recording Output Interface:** Facilitates integration with third-party devices.

SIP Split-Type Audio Intercom Controller
NAS-8521A

▲ TECHNICAL PARAMETERS

Power Supply	DC12V/2A
Network Communication Protocol	TCP/IP, UDP, ARP, ICMP, IGMP, HTTP
Network Chip Rate	10/100Mbps
Audio Sampling & Bitrate	8kHz～44.1kHz, 16bit, 8kbps-320kbps
Power Consumption	≤23W
Operating Temperature & Humidity	0℃～50℃, ≤90%RH（non-frosting）
Dimensions & Weight	NAS-8521A: 210x155x45mm, 0.5kg

▲ KEY FEATURES

INSTALLATION AND CONNECTIVITY	· **- Enhanced Security with Split Design:** Conceals network cables for added protection. · **- Extended Communication Range:** Supports up to 300 meters between controller and intercom panels, connecting up to 16 split-type panels per controller. · **- User-Friendly Configuration:** Easily set up via an intuitive web interface.
AUDIO QUALITY AND FUNCTIONALITIES	· **- Superior Sound and Custom Playback:** Features a 2×10 watt amplifier for 8-ohm speakers and customizable audio from SD card. · **- Integrated Network Audio and Recording:** Encoder/decoder links to IP master station; includes voice recording output for external storage.
SOFTWARE INTEGRATION AND APPLICATION	· **- SPON® XC-9000 Compatibility:** Seamlessly integrates with audio management software, enhancing communication capabilities. · **- Versatile for Various Establishments:** Ideal for settings requiring robust and multifunctional communication systems.

IP split-type Audio Intercom Panel
NAS-8521B/NAS-8521C

▲ TECHNICAL PARAMETERS

Dimensions	210×155×44.5mm
Weight	0.5kg
S/N Ratio	≥85dB
Audio Sampling Rate	8kHz-44.1kHz, 16bit
Transmission Bit Rate	8kbps-320kbps
Frequency Response	20Hz-16kHz

▲ KEY FEATURES

BUILD AND DESIGN	· **- Robust Construction:** Made with an all-metal shell and anti-corrosion brushed aluminum panel. · **- Compact and Durable:** Lightweight design, built for longevity.
COMMUNICATION AND FUNCTIONALITY	· **- Efficient Communication:** Two-way full duplex voice communication with the IP master station. · **- Hands-Free Operation:** Wall-mounted, equipped with built-in microphone and speaker. · **- Button Variants for Convenience:** - NAS-8521B: Single-button for straightforward one-touch calling. - NAS-8521C: Dual-button for more one-touch calling options.
SECURITY AND CUSTOMIZATION	· **- Enhanced Security:** Includes a tamper alarm that activates upon forced damage. · **- Personalized Alerts:** Offers user-defined ringtones for different call statuses.
SYSTEM COMPATIBILITY AND APPLICATION	· **- Integrated with NAS-8521A:** Specifically tailored for the NAS-8521A IP intercom controller with daisy-chain connectivity. · **- Ideal Usage:** Perfect for modern communication systems requiring robust build, security, and seamless integration.

IP VIDEO INTERCOM PAGING CONSOLE
XC-9031NV

▲ TECHNICAL PARAMETERS

Power Supply	DC 12V/3.3A or PoE IEEE802.3af
Video Codec	VGA/720/1080
Configuration Method	Local Settings/Web Page
Frequency Response	25Hz～20KHz
Audio Sampling & Bit Rate	8KHz～48KHz, 16bit/32bit
Network Protocol	SIP（RFC 3261), TCP, UDP, ARP, ICMP, IGMP, HTTP, RTP

▲ KEY FEATURES

DESIGN & COMMUNICATION

· - **Multifunctional Console:** Professional, versatile console supporting various installations (desktop, embedded, wall-mounted).

· - **Interactive Touch Screen & Camera:** Equipped with a 10.2" TFT LCD touch screen and a 13MP HD camera for two-way video intercom.

· - **Versatile Audio Options:** Built-in 3W speaker, unidirectional microphone, and Bluetooth connectivity for diverse intercom options, including hands-free and gooseneck microphone use.

BROADCASTING, CALLING, AND RECOGNITION CAPABILITIES

· - **Zone-Wise PA:** Flexible paging broadcasting across different zones.

· - **Diverse Calling Methods:** Offers Dial, Bookmarks, and Map calling modes.

· -**Enhanced Security:** Intelligent face recognition for enhanced security.

· - **Media Broadcasting and Conference Support:** Pre-recording and file broadcasting to specified terminals, along with full audio/video conference support.

NETWORK MONITORING AND EXTERNAL INTEGRATION

· - **Comprehensive Network Monitoring:** Network state checks for each system terminal.

· - **Emergency and Access Control:** Relay Input/Output interfaces for linking with emergency buttons, detectors, alarms, and electronic locks.

· - **VoIP Integration:** SIP protocol compatibility for seamless integration with VoIP systems like Cisco, Asterisk, and Yealink.

IP POE VIDEO INTERCOM STATION
XC-9133AV

▲ TECHNICAL PARAMETERS

Power Supply	DC 24V/1A or PoE（IEEE802.3af)
Network Protocol	SIP 2.0（RFC 3261), HTTP, TCP/IP, UDP, ARP, ICMP, IGMP
Audio Sampling Rate	8kHz-44.1kHz, 16bit
Signal-to-Noise（S/N）Ratio	≥84dB
Total Harmonic Distortion	<1%
Interface	1×RJ45 Ethernet Port, 2×Relay Input, 2×Relay Output, 1×Power Input

▲ KEY FEATURES

HIGH-QUALITY DISPLAY AND CAMERA

· - **High-Resolution Touchscreen:** 7-inch high-definition capacitive touch-screen with 800×1280 resolution.

· - **Advanced Camera Technology:** Built-in 2 MP low illuminance, wide dynamic dual camera.

ADVANCED COMMUNICATION AND CONNECTIVITY

· - **Full Duplex Audio Processing:** Digital audio processor for full duplex communication with echo cancellation.

· - **Versatile Calling Options:** Multiple call modes including double virtual buttons, virtual numerical dialpad, and call list.

· - **Independent Operation:** Offline calling capabilities without server dependency.

· - **SIP Protocol Integration:** Standard SIP protocol support for easy integration with mainstream SIP PBX systems (Yeastar, Asterisk, Cisco, etc.).

SYSTEM INTEGRATION AND OUTDOOR SUITABILITY

· - **Flexible Connectivity:** Relay I/O port for connecting to third-party external equipment.

· - **Remote System Management:** Remote management and online upgrad-ing featur es.

· - **Outdoor-Ready Design:** Designed for outdoor use with a protection level of IPX5.