TOA

N-SP80 Series

SIP Intercom Station

N-SP80 Series Overview

The N-SP80 Series SIP Intercom Station uses industrial standard protocols of SIP (Session Initiation Protocol) and ONVIF for its audio and video communications, which gives the system a wide capability of flexible system integrations even with third-party audio and video management systems. The high quality audio supports clear public announcements through a PA system, and the remote door release control can also be achieve by connecting with an access control system. It should fill your project design needs for small to large scale applications.

System Features

- SIP protocol is supported for 2-way commynications between N-SP80 series units and other SIP compatible devices and systems through SIP server.
- Peer-to-peer commmunication mode is desgined for SIP server-less system configuration.
- High audio quality can be achieved with the support of G.711a, G.711μ, G722 and G729 audio codecs, which is even ideal for clear voice announcements through PA systems.
- The N-SP80MS2 now features OPUS audio codec support and is fully compatible wiht TOA's IP-A1 networked public address system.
- Video streaming from N-SP80VS1 can be monitored and/or recorded by using ONVIF protocol (S Profile).
- Contact relay output equipped in Door Station can be activated remotely from N-SP80MS2 for door release.
- Secondary SIP server for server redundancy

Product Features

N-SP80MS2
SIP Multimedia Station

- Intuitive operation with 7" capacitive touch panel screen
- Less cabling thanks to PoE, or 12 V DC power supply
- Built-in camera (with privacy shutter
- Handset, hands-free, headset conversation functionality
- HDMI output for external display connection.
- Wall mounting installation method with optional bracket

N-SP80VS1
SIP Video Door Station

N-SP80AS1
SIP Audio Door Station

- PoE/12V DC power supply
- Robust and weatherproof hardware with IP65 graded
- Built-in AEC (acoustic echo canceller) enables intelligible full-duplex conversations
- Control input can be connected with a tamper-switch for activating an emergency message call.

(N-SP80VS1 only)

- 2MP camera resolution
- Automatic brightness adjustment
- Video streaming by using ONVIF protocol (S Profile)

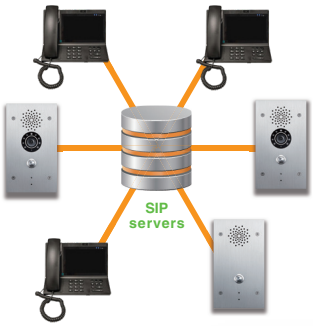
Key Benefits

Supports peer-to-peer communication

SIP server-less system can be configured.

Compatible with variety of SIP servers

Where a SIP server is already in place, adding an N-SP80 station is easy. It's compatible with Cisco CUCM, Asterisk and Genetec Sipelia.*



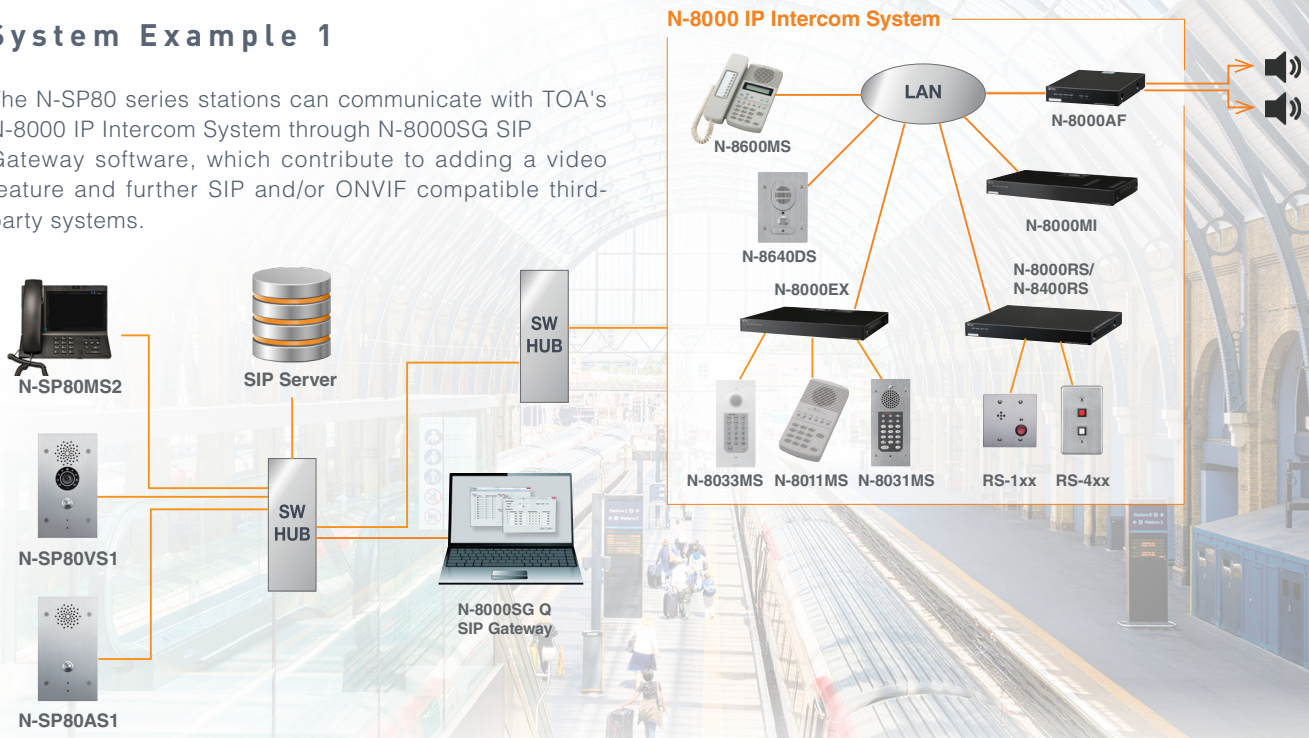
Compatible

*All product and company names are trademarks or registered trademarks of their respective owners.

Quick door release by keypad operation

System Example 1

The N-SP80 series stations can communicate with TOA's N-8000 IP Intercom System through N-8000SG SIP Gateway software, which contribute to adding a video feature and further SIP and/or ONVIF compatible third-party systems.

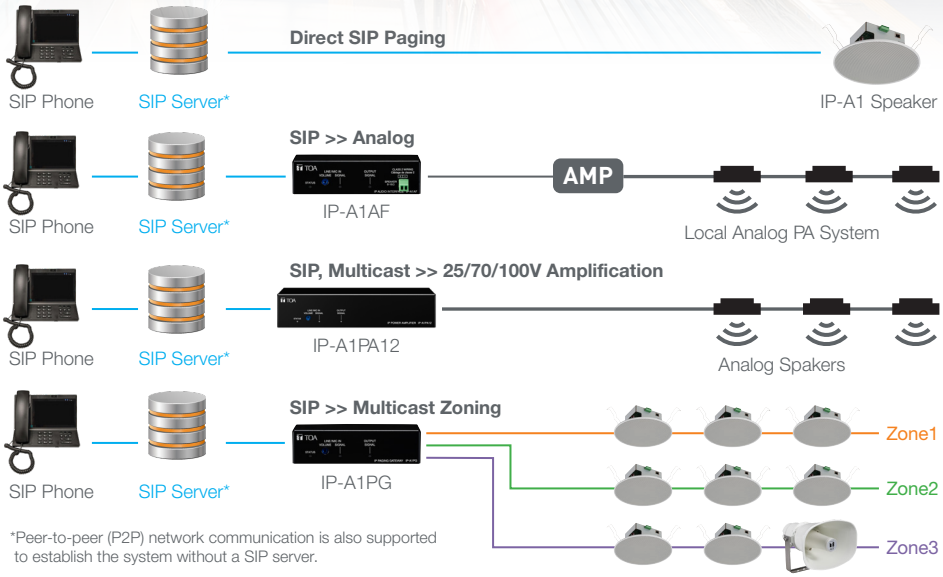


System Example 2

The N-SP80MS2 can integrate with TOA's IP-A1 Paging System natively over SIP protocol.

The N-SP80MS2 can be used in different applications:

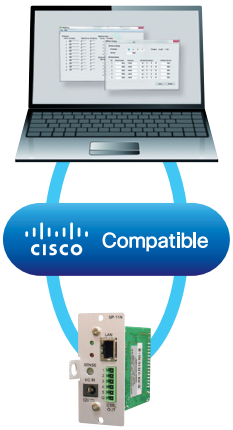
- Direct SIP Paging to IP-A1 Speaker
- SIP to Analog SIP Paging via the presence of IP-A1AF
- SIP/Multicast to Analog Paging via the presence of IP-A1PA12
- Multicast SIP paging to IP-A1PG



*Peer-to-peer (P2P) network communication is also supported to establish the system without a SIP server.

	N-SP80MS2	N-SP80VS1	N-SP80AS1
Power Supply	PoE (IEEE802.3af) or 12V DC (use of the optional AC adapter)	PoE (IEEE802.3af) or 12V DC	
Power Consumption	12 W or less		
Speech Method	Hands-free, Handset or Headset conversation	Hands-free conversation	
Hands-free	Speaker: 5 cm (1.97") Cone-type, Maximum output 2 W, 8 Ω Microphone: Omni-directional electret condenser microphone	Speaker: 5 cm (1.97") Cone-type, Maximum output 1 W, 8 Ω Microphone: Omni-directional electret condenser microphone	
Handset	Receive path: 4 cm (1.57") Cone-type, Maximum output 250 mW, 32 Ω Send path: Electret condenser microphone	-	
Headset	ø3.5 mini jack	-	
Display	7 inch capacitive touch screen TFT LCD, 1024 x 600 pixels, 16:9 wide sceren	-	
Control Input	-	2 channels, no-voltage make contact input, open circuit voltage: 5 V DC, short-circuit current: 10 mA or less	
Control Output	-	2 channels, relay output, normally-open/normally-close output, withstand voltage: 30 V DC, control current: 1A	
DC Power Input	-	12 V DC	
Operation Button	-	1 x Call button, 1 x Reset button	
Indication	-	Status LED	
Camera	Image device: 1/5" CMOS, Number of effective pixels: 2M pixels, Maximum resolution: 1080p Other features: Free-Rotation	1/2.7" CMOS, 2M pixels, Max 1080p resolution, Horizontal116° x vertical 60° angle of view, IR LED, Day(color) & night(black/white) mode automatic switching	
Video	Image size: QCIF, CIF, 4CIF, VGA, 720P Bit rate: 64 kbps - 2 Mbps	-	
Network			
Network I/F	10BASE-T/100BASE-TX (Auto-Negotiation)		
Network Protocol	UDP/TCP/IP, HTTP/HTTPS, TLS, RTP/RTCP, ARP, NAT, NTP, IGMP, SIP, etc.	IPv4, HTTP, HTTPS, FTP, SNMP, DNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP, ARP, SIP	
Packet Transmission System	Unicast, Multicast		
Paging	1 x Multicast transmission	1 x Multicast receive	
Connector	RJ45 2 ports (one supports PoE (IEEE802.3af))		
Quantifying bit number	Maximum 16 bits		
Voice encoding method	G.711 μ-law/A-law, G.722, G.729, OPUS		
Video compression method	H.263, H.264, H.265, VP8	H.264, MJPEG	-
Security	-	Password protection, IP address filtering, SIP over TLS, HTTPS	
Speech Features	-	SIP: SIPv1(RFC2543), SIPv2(RFC3261) Acoustic echo canceller, VAD (Voice Activity Detection), Comfort noise generator Auto answer, Volume control, Peer-to-peer connection (Direct IP connection without SIP server)	
External Interface	USB, HDMI, Bluetooth 4.2	-	
Operating Temperature	0 °C to +40 °C (32 °F to 104 °F)	-20 °C to +55 °C (-4 °F to 131 °F)	
Operating Humidity	10 % to 90 %RH (no condenstation)		
Dust/Water Protection	-	IP65 (Panel)	
Finish	Body, Handset: ABS resin, black	Panel : Stainless steel	
Dimensions	250 (W) x 211.1 (H) x 195.4 (D) mm (9.84" x 8.31" x 7.69") (excluding curl cord section) x Numerical values are for reference only	120 (W) x 210 (H) x 49.5 (D) mm (4.72" x 8.27" x 1.95")	
Weight	1.15 kg (2.54 lbs)	890g (1.96 lbs)	850g (1.87 lbs)
Accessory	1 x Handset, 1 x Coil cord, 1 x LAN cable, 1x Foot stand	4 x Box mounting torx screw, 1 x Torx screw driver	
Option	AC adapter: AD-1215P, AD-5000-2, Wall bracket: N-SP80WB2	4 size back box: YC-400	

OPTIONS



N-8000SG Q SIP Gateway

The N-8000SG Q SIP Gateway allows you to connect the TOA's N-8000 IP Intercom System to a SIP phone system.

SP-11N Module

The SP-11N is a VoIP phone paging module supported SIP (Session Initiation Protocol) with Auto-answer function. This module can be used with TOA's 9000M2 Series, A-700 Series, A-900 Series and BG Series amplifiers.

N-SP80WB2 Wall Mounting Bracket

On-wall bracket used for the SIP multimeia station N-SP80MS2.

YC-400 4-Gang Box

Designed to flush-mount N-SP80VS1 and N-SP80AS1 in a wall.

** Availability differs from country to country.*
Please contact your nearest dealers for more details.

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Specifications are subject to change without notice. (2505) 8336110044-02