



N-SP80

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 achieved 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 communications between N-SP80 series units and other SIP compatible devices and systems through SIP server.
- Peer-to-peer communication mode is designed for SIP server-less system configuration.
- High audio quality can be achieved with the support of G.711a, G.711μ, G.722 and G.729 audio codecs, which is even ideal for clear voice announcements through PA systems.
- Video streaming from N-SP80VS1 can be monitored and/or recorded by using ONVIF protocol.
- Contact relay output equipped in Door Station can be activated remotely from N-SP80MS1 for door release.
- Secondary SIP server for server redundancy

Product Features

N-SP80MS1 SIP Multimedia Station



- Intuitive operation with 7-inch touch screen and dial keys
- Less cabling thanks to PoE
- Address book stores up to 3000 names
- Forwarding setting (always/call/no answer)
- DND (do not disturb) – ignore incoming calls
- Auto Redial – redial an unsuccessful call a set number of times within a designated interval



- 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

■ Key Benefits

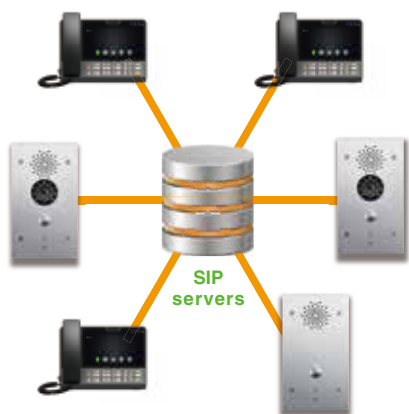
Supports peer-to-peer communication

SIP server-less system can be configured.



Compatible with variety of SIP servers

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



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

Quick door release by keypad operation



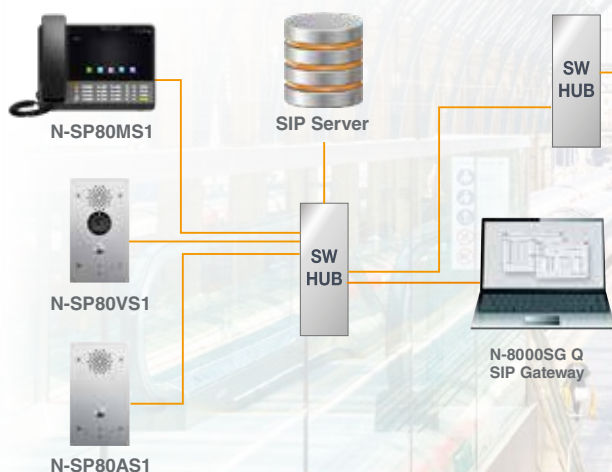
Flexible security system integrations

ONVIF protocol helps to easily integrate N-SP80VS1 with security video management software for realtime monitoring and recording applications.

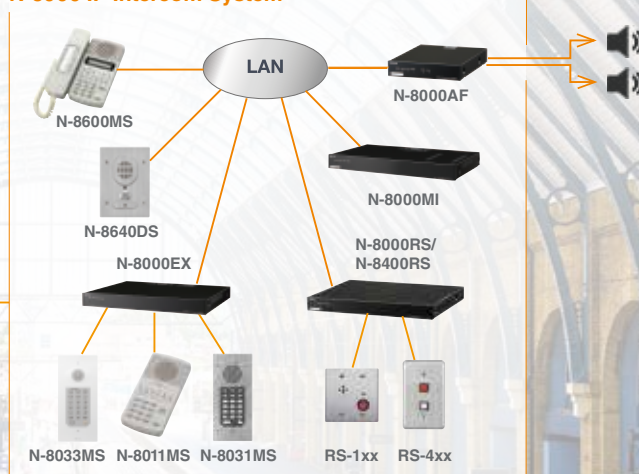


■ System Example

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.



N-8000 IP Intercom System



	N-SP80MS1	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: 3.6 cm (1.42") Cone-type, Maximum output 30 mW, 32 Ω Send path: Electret condenser microphone	-	
Headset	Speaker: 20 mW, 16 Ω/32 Ω, ø3.5 mini jack (3P)	-	
Display	7 inch capacitive touch screen TFT LCD, 800 x 480 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	1/5" CMOS, 2M pixels, Max 1080p resolution, 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, QVGA, CIF, 4CIF, VGA Bit rate: 64 kbps - 2 Mbps	-	
Network			
Network I/F	10BASE-T/100BASE-TX (Auto-Negotiation)		
Network Protocol	UDP/TCP/IP, RTP/RTCP, ARP/RARP, 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		
Video compression method	H.263, H.264	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	USB2.0	-	
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	240 (W) x 214 (H) x 117 (D) mm (9.45" x 8.43" x 4.61") (excluding a curl cord section)	120 (W) x 210 (H) x 49.5 (D) mm (4.72" x 8.27" x 1.95")	
Weight	1.1 kg (2.43 lbs)	890g (1.96 lbs)	850g (1.87 lbs)
Accessory	1 x Handset, 1 x Curl cord, 1 x LAN cable	4 x Box mounting torx screw, 1 x Torx screw driver	
Option	AC adapter: AD-1215P, AD-5000-2	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.



YC-400 4-Gang Box

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



TOA Corporation

www.toa.jp

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

Specifications are subject to change without notice. (2201) 8336110044-02