

INSTALLATION MANUAL

IP DOOR STATION BOARD

N-8640SB

Use the specified AC adapter in combination. Failure to do so may cause a fire.

1. GENERAL DESCRIPTION

The N-8640SB is an IP door station assembly kit consisting of Main and Sub PC boards, cables, and mounting hardware (excluding the operation panel) of the N-8640DS IP door station.

You can make the IP door station suitable for applications using this kit in combination with the operation panel section to be prepared separately.

Use the N-8000 Setting Software* to perform settings. Set up the same items as those for the N-8640DS since the N-8640SB is handled as the N-8640DS on the software.

Settings and operations are the same as those of the N-8640DS. For details, read the descriptions about the N-8640DS in the N-8000 series instruction manual*.

* Available for download on the TOA product data download site (http://www.toa-products.com/international/).

2. COMPONENT PARTS



Be sure to ground the operation panel.

Follow the instructions below.

- Doing otherwise may cause unit failure.
- The operation panel should be metallic.
- Install a frame ground terminal and ground the operation panel. For details, refer to p. 4, "5. CONNECTIONS".

3. OPERATION PANEL DESIGN GUIDELINE

Note: The operation panel should be metallic, and grounded.

[Chassis and case mounting sleeve layout]



- A: Case mounting sleeve position
- B: Chassis mounting sleeve position
- · Sleeve height: 11 mm (from the panel's rear surface)
- Sleeves should be metallic.
- Speaker opening size should be roughly 30% of the area of a circle with the speaker's diameter.
- Microphone opening size should be roughly 70% or more of the area of a circle with the microphone's diameter.

[Notes on the Call switch]

- · Position the Call switch within the range shown above.
- The Call switch's height should be 20 mm or less from the operation panel's rear surface.
- The Call switch should be of momentary type.
- When the above conditions could not be satisfied, provide an external call switch using the external control input cables.

TOA Corporation

4. ASSEMBLING

- Step 1. Place the Case gasket onto the operation panel, then screw the chassis and speaker bracket to the operation panel.
- Step 2. Connect the connection cables and harness to the Main PC board, then secure the Main PC board to the chassis.
 - 2-1. Connect the speaker and microphone connection cables (fitted with a connector) from the chassis to the Main PC board. Connect between the Call switch on the operation panel and Main PC board using the Call switch connection harness. Note

If no Call switch is installed on the operation panel, connect the external control input cables to the external switch. (See Example 3 on p. 4, "Connections.")

- 2-2. Secure the Main PC board to the chassis using the sleeves.
- Step 3. Connect the power supply and external input/output connection cable to the Sub PC board.
- Step 4. Join the connector on the Sub PC board and that on the Main PC board together, then screw the Sub PC board onto the sleeves.



- Step 5. Run the connection cables through the case's cable entry holes, then make cable connections.
 - 5-1. Run the LAN connection cable through the case's
 - the case, then pull it out.
- panel.
- - pressing both cord bushes with it.



Unit: mm



5. CONNECTIONS



[Example 3]

Control IN HOT (GRY) — Control IN COM (WHT) —

6. SPECIFICATIONS

Power Source	Power supply device that complies with IEEE802.3af standard or 12 V DC (supplied from the AC adapter)	
Power Consumption	Use of the AC adapter (12 V DC): 3.5 W (station only), Use of the PoE (48 V DC): 5 W	
Speech Method	Hands-free conversation	
Audio Frequency Range	300 Hz – 7 kHz	
Hands-free	Speaker: 3.5 cm cone-type, maximum output 0.5 W, 8 Ω Microphone: Omni-directional electret condenser microphone	
Control Input	1 channel, no-voltage make contact input, open circuit voltage: 5 V DC, short-circuit current: 10 mA or less, unterminated ends	
Control Output	Open collector output, 4 channels, withstand voltage: 30 V DC, control current: Max. 50 mA (4 output 1 COMMON), unterminated ends Relay contact output, 1 channel, withstand voltage: 30 V DC, control current: Max. 500 mA, unterminated ends	
External Speaker Output	Maximum output 0.5 W, 8 Ω, unterminated ends	
Network Section	Network I/F: Network Protocol: Audio Packet Transmission System: Number of Paging Destinations: LAN Connector: Voice Sampling Frequency: Quantifying Bit Number: Voice Encoding Method: Voice Packet Loss Recovery: Audio Delay Time:	10BASE-T/100BASE-TX (Automatic-Negotiation) TCP/IP, UDP, HTTP, RTP, ARP, ICMP, IGMP Unicast, Multicast 0 Note: Reception only RJ-45 connector (PoE compatible) 16 kHz, 8 kHz (controllable on the software) 16-bit Sub-band ADPCM, Cryptosystem Silence insertion 80 ms, 320 ms (controllable on the software)
Operating Temperature	-10 to +50°C	
Operating Humidity	Under 90 % RH (no condensation)	
Dimensions	79 (w) x 134 (h) x 53 (d) mm (Complete assembly of parts)	
Weight	350 g (Total weight)	
Optional Products	AC adapter: AD-1210P or AD-1215P	

Note: The design and specifications are subject to change without notice for improvement.



URL: http://www.toa.jp/