

## IP DOOR STATION BOARD

### N-8640SB

## **⚠** CAUTION

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

#### 1. GENERAL DESCRIPTION

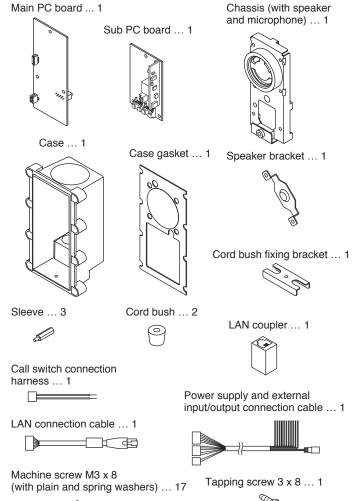
The N-8640SB is an IP door station assembly kit consisting of Main and Sub PC boards, cables, and mounting hardware (excluding the operation panel) of the N-8640DS IP door station. You can make the IP door station suitable for applications using this kit in combination with the operation panel section 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



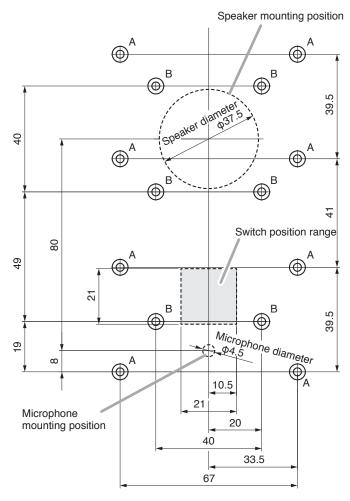
#### 3. OPERATION PANEL DESIGN GUIDELINE

#### Note

The operation panel should be metallic, and grounded.

#### [Chassis and case mounting sleeve layout]

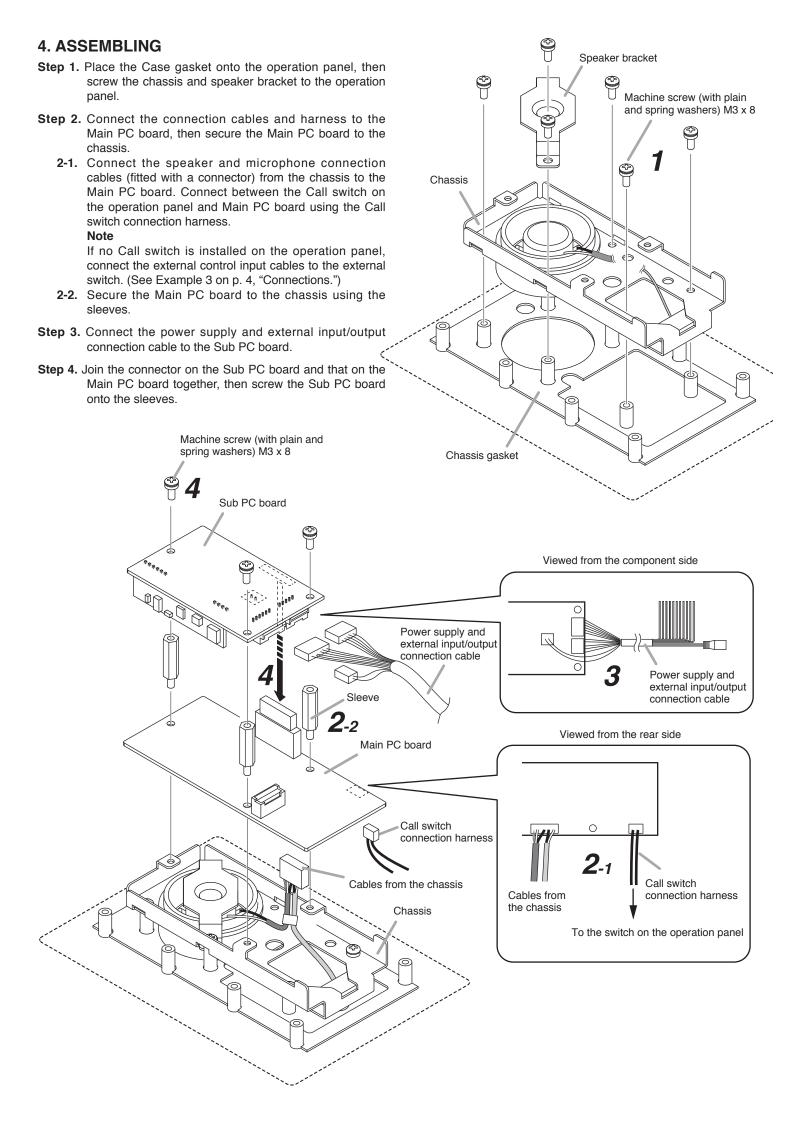
Unit: mm

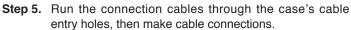


- · A: Case mounting sleeve position
- B: Chassis mounting sleeve position
- · Sleeve height: 11 mm (from the panel's rear surface)
- · Sleeves should be metallic.
- Speaker opening size should be roughly 30% of the area of a circle with the speaker's diameter.
- Microphone opening size should be roughly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



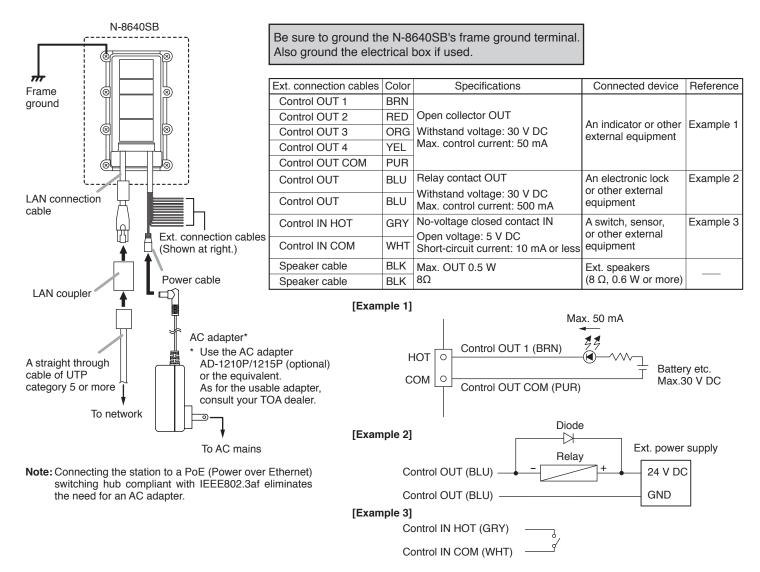


- **5-1.** Run the LAN connection cable through the case's cable entry hole on your left, then connect it to the LAN connector on the Main PC board.
- **5-2.** Run the power supply and external input/output connection cable connected to the Sub PC board in step 3 through the other cable entry hole from the inside of the case, then pull it out.
- **Step 6.** Screw the case to the sleeves fixed to the operation panel.
- Step 7. Secure the cables to the case.
  - 7-1. Install the cord bush to each cable.
  - **7-2.** Screw the cord bush fixing bracket to the case while pressing both cord bushes with it.

# [Dimensional diagram for the completed assembly] Unit: mm 79 53 69 134 Note Numerical values in parentheses are for reference only. Cord bush Note A slit is provided on each cord bush. Install the cord bush with its slit facing inward. Power supply and external input/output connection cable **5**-2 Cord bush fixing bracket

# Machine screw (with plain and spring washers) M3 x 8 Case LAN connection cable LAN connection **7**-2 cable Tapping screw 3 x 8 Power supply and external input/output connection cable LAN connector

#### 5. CONNECTIONS



#### 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/