N-8000AF CE

AUDIO INTERFACE UNIT



The N-8000AF is an Audio interface unit designed for use with TOA's packet intercom system (IP network-compatible intercom system) that employs the packet audio technology. It has an analog audio input and output, a time synchronization contact input, and each 8 contact inputs and outputs. Connecting the unit to the LAN permits recording of conversations, chime broadcast at regular intervals (time signal) and paging broadcast to be realized. It can be mounted in an EIA equipment rack (1U size) with the use of an optional rack mounting bracket or installed on a wall using an optional wall mounting bracket.

Key features

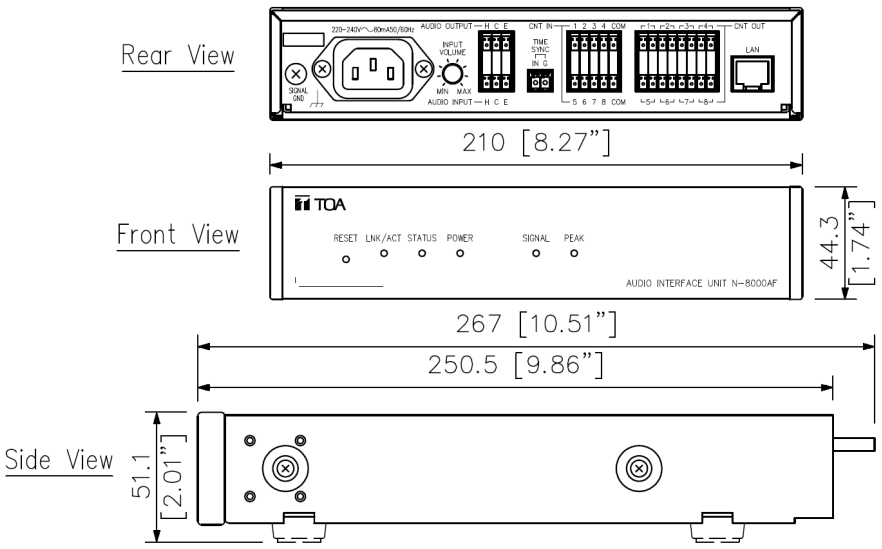
- 10 Base-T / 100 Base-TX Ethernet network connection
- 8x Contact Input / 8x Contact Output
- Time synchronization input
- Built-in timer and chime
- Function to diagnose system line and network status
- Audio Input: Paging
- Audio Output: Paging

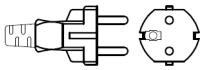
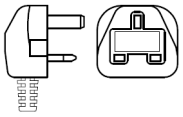
Specifications

* 0 dB = 1 V

Power Source	220 - 240 V AC, 50/60 Hz
Power Consumption	7 W (max.)
Audio Input	1 input (transformer isolated), -58 dB* to 0 dB*, 2 kΩ, balanced (MIC/LINE input, controllable on the software) with input volume control knob, removable terminal block (3 pins)
Audio Output	1 output (transformer isolated), 0 dB*, 600 Ω, balanced, removable terminal block (3 pins)
Contact Input	8 inputs, no-voltage make contact input, open voltage: 24 V DC, short-circuit current: 5 mA or less, removable terminal block (10 pins), (1 common terminal for 4 inputs)
Contact Output	8 outputs, relay contact output, contact capacity: 24 V DC/2 - 500 mA, removable terminal block (16 pins)
Time Sync Input	1 input, no-voltage make contact input, open voltage: 24 V DC, short-circuit current: 5 mA or less, removable terminal block (2 pins)
Network Section	Network I/F: 10BASE-T/100BASE-TX (Automatic-Negotiation) Network protocol: TCP/IP, UDP, HTTP, RTP, ARP, ICMP, IGMP Audio packet transmission system: Unicast, Multicast Number of paging destinations: Unicast (max. 8), Multicast (max. 191) Connector: RJ45 connector Voice sampling frequency: 16 kHz, 8 kHz (controllable on the software) Quantifying bit number: 16-bit Voice encoding method: Sub-band ADPCM, Cryptosystem Voice packet loss recovery: Silence insertion Audio delay time: 80 ms, 320 ms (controllable on the software)
Indicator	Network LNK/ACT indication, Status lamp, Power-on indication lamp, Signal lamp, Peak lamp
Other	Firmware update function, System data hold function, Time of day hold facility, Reset switch (front panel)
Installation Method	Rack, Desk, Surface mount
Operating Temperature	0 °C to +40 °C (32 °F to 104 °F)
Operating Humidity	90 %RH or less (no condensation)
Finish	Pre-coated steel plate, black, 30 % gloss
Dimensions	210 (W) x 44.3 (H) x 267 (D) mm (8.27" x 1.74" x 10.51")
Weight	1.7 kg (3.75 lb)
Included Accessories	Power cord (2 m (6.56 ft) …1, CD (for PC setting, maintenance use) …1, Removable terminal plug (2 pins) …1, Removable terminal plug (3 pins) …2, Removable terminal plug (5 pins) …2, Removable terminal plug (8 pins) …2, Plastic foot …4, Screw for fitting plastic foot …4
Optional Accessories	Rack mounting bracket: MB-15B-BK (for rack mounting one N-8000AF unit) MB-15B-J (for rack mounting two N-8000AF units) Wall mounting bracket: YC-850

Dimensions



Model	AC plug
CE	
CE-GB	

UNIT: mm

A&E specifications

The audio interface unit is designed for use with TOA's packet intercom system (IP network compatible intercom system) that employs the packet audio technology. It can be connected to an existing local area network (LAN) or wide area network (WAN). Network shall be made possible using RJ45 connection via switching hub. Network interface shall be I/F 10BASE-T/100BASE-TX (Automatic-Negotiation) Auto MDI/MDI-X compatible Network Protocol TCP/IP, UDP, ARP, ICMP, HTTP, RTP, IGMP.
By connecting the audio interface unit to a LAN via its RJ45 connector shall make it possible to broadcast public announcements by interfacing to an existing public address system. Other audio signals can be broadcast, such as BGM (background music), signal tones and chimes via the MIC/LINE balanced input. The audio input shall have its own independent volume control. The recording of conversations and paging calls of master stations, intercom telephones, and outside telephone lines shall be made possible by interfacing to an external recording device by utilising the isolated audio balanced output connector and controlled by the output connector closed contact.
The unit shall have a time synchronisation input and 8 contact inputs and outputs for the purpose of broadcasting pre-recorded internal and external audio files at a predetermined time via it's built in timer.
The audio interface unit shall have indication lamps on the front panel displaying:
LNK/ACT lights green when connected to a network, and flashes while transmitting or receiving data. STATUS continuously lights red while data is written to an internal storage medium. POWER lights green when power is supplied to the unit. SIGNAL lights green when audio is present and PEAK lights red when audio input reaches its peak. There shall be a RESET key on the front panel to reactivate the unit.
The audio interface shall include dedicated software that will enable centralised control and log verification and system maintenance from a personal computer. Line supervision can also be performed using a personal computer and Internet browser.
The unit shall be able to interlock with an electronic lock system or CCTV surveillance system by way of contact input/output control function.
Power requirements shall be 220 – 240V AC.
It shall use only one-half EIA component rack space and its dimensions shall be 210 (W) × 44.3 (H) × 267 (D) mm (8.27" × 1.74" × 10.51") Weight shall be 1.7 kg (3.75 lb.) and finished in black pre-coated steel plate. Alternatively, the unit can be free standing or wall mounted.
Optional extras: MB-15B-BK rack mounting bracket (for rack mounting one unit). MB-15B-J rack mounting bracket (for rack mounting two units). YC-850 wall mounting bracket manufactured by TOA Corporation.