CX-AF1062

AUDIO INTERFACE 6IN2OUT



The CX-AF1062 is an Audio interface designed for the CX-1000 series IP communication system that features decentralized distribution configuration. By simply connecting to a network (LAN or WAN), it is possible to make audio announcements from the microphone or audio source devices connected to this unit to the intercom stations or amplifier units. By registering audio files in the unit's built-in memory, Chime broadcast and EV broadcast can be performed. It is equipped with 6 analog audio inputs and 2 analog audio outputs. You can adjust the volume for each audio input/output channel using the front panel-mounted volume knob or by software. In addition, the sound quality for each audio input/output channel can also be adjusted by software. Announcements and various functions can be started or stopped using the front panel-mounted direct keys.

Key features

- Supports 6 balanced audio inputs and 2 balanced audio outputs
- Comprehensive volume control with 6 inputs and 2 outputs
- Signal processing with Gain, EQ, Comp, AGC, Trim, Gate (VOX)
- Network support with dual RJ45 connectors and key protocols
- Unicast and multicast audio packet transmission
- 10 direct keys and multiple LED indicators
- 10 control inputs and 10 control outputs for external device integration
- Desktop, rack, or wall mountable for flexible installation

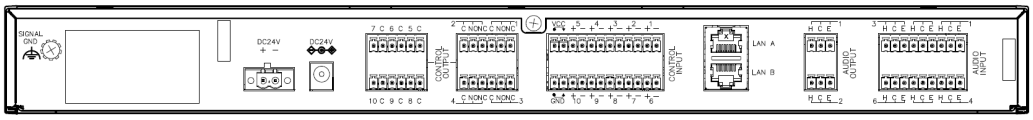
Specifications

Power Source	24 V DC (operating range: 21.6 - 26.4 V DC) Removable terminal block (2 pins) or use of the optional AC adapter
Current Consumption	340 mA
Power Consumption	8 W
Audio Input	3 channels, -60 dB (*1)/0 dB (*1) selectable, 600 Ω, transformer-balanced 3 channels, 0 dB (*1), 10 kΩ, electronically-balanced Removable terminal block (9 pins x 2) Only Input 1 is used in common with the front-mounted Ø6.3 mm phone jack.
Audio Output	2 channels, 0 dB (*1), 10 kΩ, electronically-balanced, removable terminal block (3 pins x 2)
Frequency Response	200 Hz - 16 kHz
Signal to Noise Ratio	60 dB or more
Distortion	1% or less
Volume Control	Audio input volume control x 6, Audio output volume control x 2
Signal Processing	Input channel: Gain, EQ x 2, Comp, AGC, Trim, Gate (for VOX function) Output channel: Gain, EQ x 7
Network Section	Network I/F: 100BASE-TX Network protocol: TCP/IP, UDP, ARP, ICMP, HTTP, RTP, RTSP, IGMP, NTP, FTP, RSTP Audio packet transmission system: Unicast, Multicast Number of paging destinations: Unicast (max. 16), Multicast (max. 2999) Connector: RJ45 connector x 2 Network cable: UTP (Cat5 or greater)
Audio Transmission	Sampling frequency: 48 kHz, 16 kHz (controllable on the software) Audio codec: PCM, G.722 Quantization bit depth: 16-bit Voice packet loss recovery: Silence insertion
User Control	Direct key x 10, Reset key x 1, Setting switch (input level setting (MIC/LINE selectable) x 1
Indicators	LED indicators: LAN (green) x 2, POWER (green) x 1, RUN (green) x 1, STATUS (yellow, red, green) x 1, INPUT (red, green) x 6, OUTPUT (red, green) x 2 Direct keys: SELECT (green) x 10, STATUS (yellow, red, green) x 10
Control Input	10 channels, no-voltage make contact input, open voltage: 24 V DC, short-circuit current: 5 mA or less, removable terminal block (12 pins x 2)
Control Output	4 channels, relay output, maximum contact capacity : 30 V DC/1.0 A, removable terminal block (6 pins x 2) 6 channels, open collector output, maximum contact capacity : 30 V DC/100 mA, removable terminal block (6 pins x 2)
Installation Method	Desktop, rack, or wall mounting (Rack or wall mounting needs optional brackets.)
Operating Temperature	0 °C to +40 °C (32 °F to 104 °F)
Operating Humidity	90 %RH (no condensation)
Finish	Panel, Case: Pre-coated steel plate, black, 30% gloss Front cover: ABS resin, gray smoke
Dimensions	420 (W) x 44.3 (H) x 284.5 (D) mm (16.54" x 1.74" x 11.2")
Weight	3.1 kg (6.83 lb)
Included Accessories	Removable terminal plug 2 pins) x 1, Removable terminal plug (3 pins) x 2, Removable terminal plug (6 pins) x 4, Removable terminal plug (9 pins) x 2, Removable terminal plug (12 pins) x 2, Plastic foot x 4, Screw for fitting plastic foot x 4, Removable terminal plug 2 pins) x1

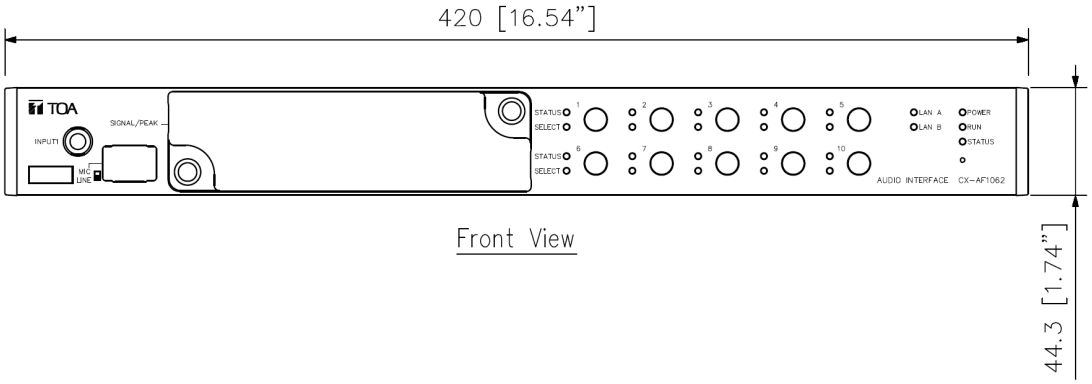
Optional Accessories	AC adaptor: AD-246 Wall mounting bracket: YC-850 Rack mounting bracket: MB-15B

(*1) 0 dB = 1 V

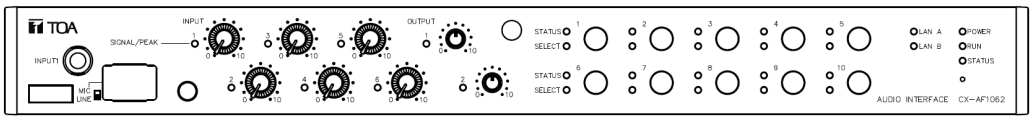
Dimensions



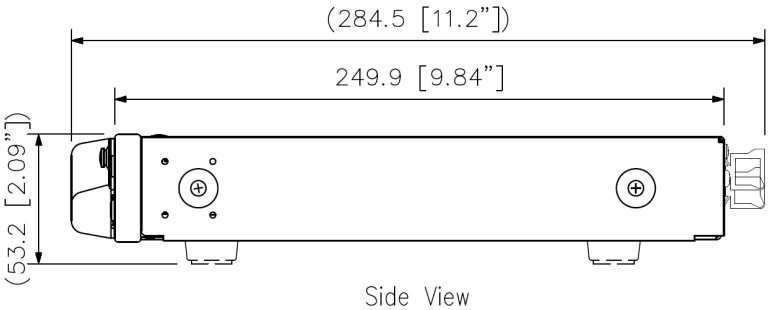
Rear View



Front View



Front View with a cover detached



Side View

UNIT: mm

Note: Numerical values in parentheses are for reference only.

A&E specifications

The Audio Interface shall be a multifunctional, network-connected device designed to integrate external audio sources and control signals into IP-based audio systems, specifically for use with TOA's CX-1000 Series IP communication system.
The Audio Interface shall provide six balanced audio inputs and two balanced audio outputs, each with adjustable gain and equalization (EQ).
The Audio Interface shall include independent volume controls for all six input channels and both output channels, as well as signal processing functions including gain, EQ, compressor, Automatic Gain Control (AGC), trim, and VOX (voice-operated switch) gating.
The Audio Interface shall support audio transmission over 100BASE-TX Ethernet using both unicast and multicast delivery. Dual LAN ports shall be provided, with LAN A supporting PoE (IEEE802.3af compliant) and LAN B for redundant network connection. Supported protocols shall include TCP/IP, UDP, ARP, ICMP, HTTP, RTP, RTSP, NTP, FTP, and RSTP. Audio encoding shall use PCM or G.722 codecs with 16-bit quantization and selectable sampling rates of 48 kHz or 16 kHz.
The Audio Interface shall provide ten control inputs and ten control outputs for integration with external control systems. Ten direct-operation keys and corresponding LED indicators shall be provided for intuitive operation and real-time status monitoring.
The Audio Interface shall support desktop placement and shall be mountable in a rack or on a wall using optional brackets. Power shall be supplied via 24 V DC through a removable terminal block or by an optional AC adapter. Power consumption shall not exceed 8 W. The unit shall operate within a temperature range of 0 °C to +40 °C (32 °F to 104 °F) and relative humidity up to 90 % (non-condensing).
The Audio Interface shall be housed in a pre-coated black steel chassis with an ABS resin front panel. Dimensions shall be 420 (W) × 44.3 (H) × 284.5 (D) mm (16.54" × 1.74" × 11.20"), and weight shall be 3.1 kg (6.83 lbs).
Optional Accessories: AC Adapter (AD-246), Wall Mounting Bracket (YC-850), Rack Mounting Bracket (MB-15B)
Manufacturer: TOA Corporation
Model: CX-AF1062