



Description

The QX-MINI is an emergency and fire alarm audio system designed to provide notification for small to medium applications. The QX-MINI supplies 30 W for audio output and 5 A for Notification Appliance Circuits (NAC). The optional 30-Watt Amplifier Module (QAD-30) increases audio output to 60 W.

The applications for this distributed audio system, ranges from small to mid-sized facilities such as: clinic and nursing homes, churches, schools, mid-sized buildings, factories, etc.

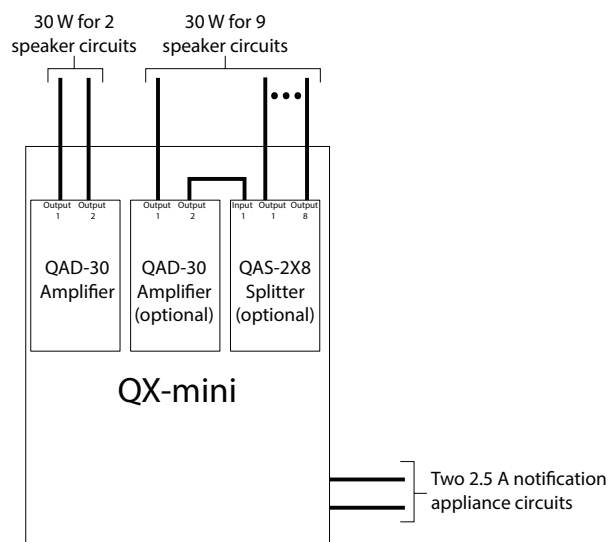
The QX-MINI operates either as a stand-alone audio system or as part of a fire alarm system. The QX-MINI can connect to any UL-listed fire alarm control unit (FACU), through supervised inputs or NACs. Mircom's addressable FACUs can control the QX-MINI using the SLC loop.

Optional Booster Panels (QX-MINI-BP) provide support for a distributed system. All Inputs, Microphones and User interfaces are disabled on Booster Panels, and they cannot be programmed through the configuration software. A maximum of five QX-MINI-BP can be connected to a QX-MINI.

One splitter (QAS-2X8) and one secondary amplifier (QAD-30) can be added to each QX-MINI or QX-MINI-BP. When adding the QAS-2X8 to QX-MINI or QX-MINI-BP that has two amplifiers, the secondary QAD-30 output speaker circuit can go to one QAS-2X8 input and the primary amplifier keeps both outputs untouched. In this case QX-MINI or QX-MINI-BP will have 11 (9+2) channels.

Features

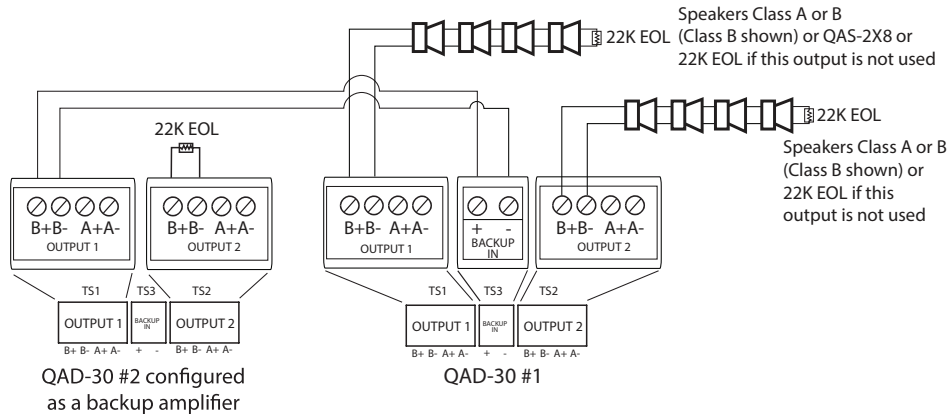
- Utilize as a standalone audio system or integrate with a fire alarm system
- Integrates with Mircom's addressable fire alarm control units (FACU) through the SLC loop
- Ability to connect to any UL-listed FACU through two available supervised inputs (1st Stage & 2nd Stage) or NACs
- Supports multiple intelligent input activation protocols: MGC Protocol & CLIP
- Low Frequency (LF) signalling for speakers available through Mircom SP Series, MGC SPP/SPPS Series and other branded compatible speakers
- Each QX-MINI or QX-MINI-BP delivers up to 60 Watts (Two QAD-30 amplifiers) and expandable to 360 W for a system composing of one QX-MINI Master and Five Booster Panels
- Each QAD-30 provides two Class A or Class B speaker circuits, field selectable for 25 or 70 V of audio output
- Two Class A or Class B NAC outputs available on each QX-MINI/ QX-MINI-BP, rated at 2.5A regulated 24V
- Ability to synchronize signal on QX-MINI NACs with connected FACU NAC & extend synchronization signal to booster panel (QX-MINI-BP) circuits
- Comes with standard digital messages for fire, emergency, evacuation, weather, and all clear
- Select from up to 14 digital messages at the panel and store up to 12 minutes of audio messages. Additionally, create custom messages and upload using the configurator
- Capable of creating up to 30 zones, and correlating devices to zones to comply with local AHJ requirements, such as activating speakers on "floor above and floor below"
- Supports up to 6 remote microphones and/or LOCs
- Master microphone input with push-to-talk (PTT)
- Battery backup (up to 18 Ah in cabinet and up to 75 Ah with a separate battery cabinet)
- Dedicated Trouble, AC Fail, and Alarm relay outputs



Use Cases for New/Retrofit Installations:

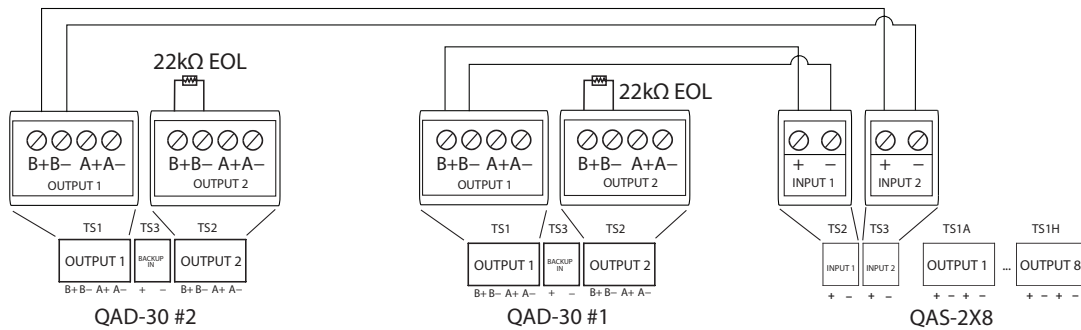
A. Utilize Second Amplifier as Backup

- When there are 2 amplifiers installed, one of them can be configured as a backup. If the main amplifier fails, the backup amplifier will control the speakers that are wired to the main amplifier.



B. Drive Two Separate Audio Messages in a Single Panel

- Can be utilized when connecting two amplifiers to the input of the audio zone splitter for an application where each amplifier plays a different audio message.
- For example, one amplifier can provide an alarm signal to a zone, and the other amplifier can provide an alert signal to the other zones

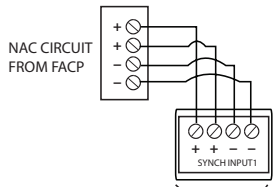


C. Synchronization Between FACU and QX-MINI NACs

- In this application, the two NACs on the QX-MINI are synchronized with the NAC from the FACU. The QX-MINI Sync Inputs are supervised by the FACU and provide activation and synchronization.

CLASS A

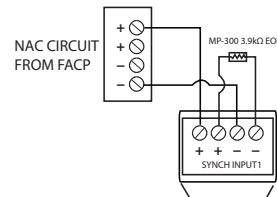
SYNCH SIGNAL FROM FACP



TS16	TS10	TS5	TS4	TS3	TS17	TS6	TS1	TS14	TS9	TS11	TS12	TS13	TS7	TS8
RMIC AUDIO	RELAY IN	ALARM	AC TBL	COM TBL	RMIC RS-485 OUT	RS-485 IN	RS-485 AUX 24V	SLC	SYNCH INPUT 1	SYNCH INPUT 2	SYNCH OUTPUT	NAC 1	NAC 2	
+ 5	+ 1	+ 2	NO NCC	NO NCC	NO NCC	+ 3	+ 5	+ 5	+ 1	+ 2	+ 1	+ 2	+ 1	+ 2

CLASS B

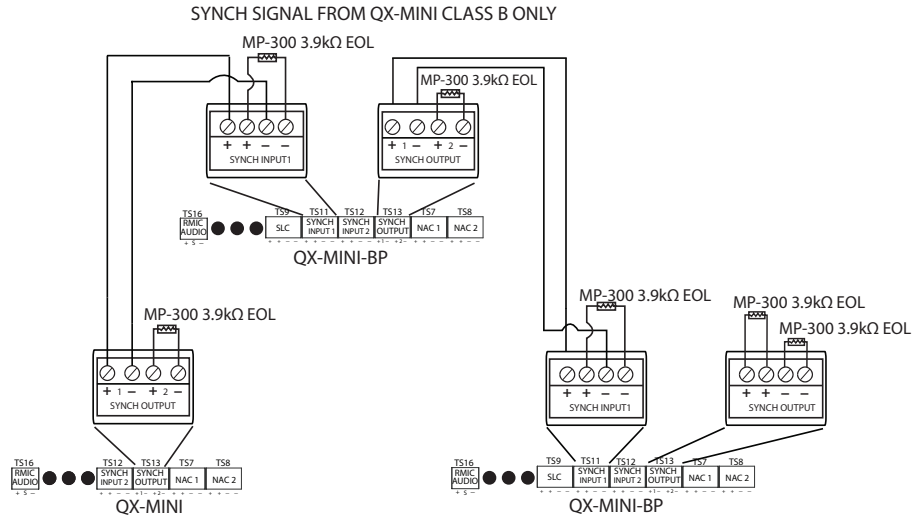
SYNCH SIGNAL FROM FACP



TS16	TS10	TS5	TS4	TS3	TS17	TS6	TS1	TS14	TS9	TS11	TS12	TS13	TS7	TS8
RMIC AUDIO	RELAY IN	ALARM	AC TBL	COM TBL	RMIC RS-485 OUT	RS-485 IN	RS-485 AUX 24V	SLC	SYNCH INPUT 1	SYNCH INPUT 2	SYNCH OUTPUT	NAC 1	NAC 2	
+ 5	+ 1	+ 2	NO NCC	NO NCC	NO NCC	+ 3	+ 5	+ 5	+ 1	+ 2	+ 1	+ 2	+ 1	+ 2

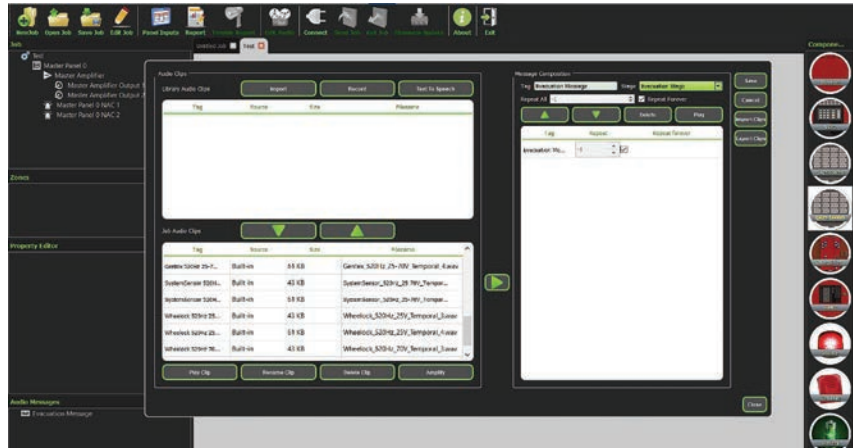
D. Synchronization Between Multiple QX-MINI-BP

- Inter-panel synchronization can be achieved (maximum of four units) within the distributed QX-MINI system
- Please note that to synchronize signals from the QX-MINI, Class B wiring can only be used



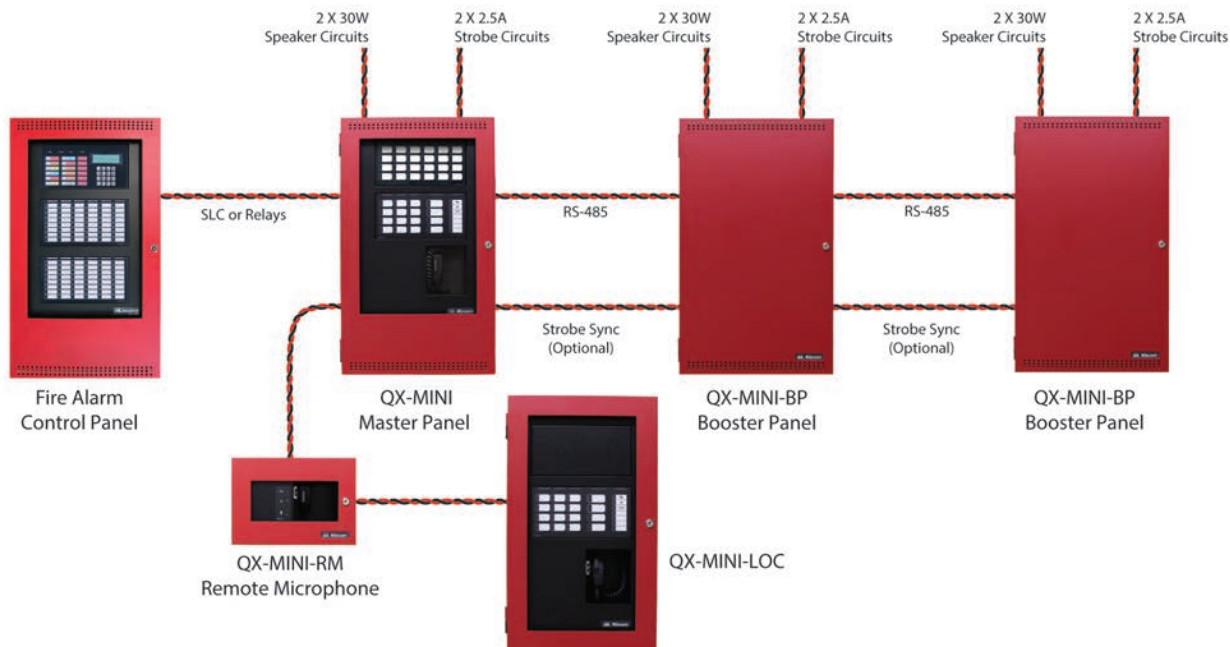
E. Drive Low Frequency Signal through Speakers/Speaker-Strobes

- With this option, retrofit applications can use the QX-MINI for complying with latest Low Frequency (LF) code requirements across their respective jurisdictions
- The QX-MINI provides the ability to drive Low Frequency waveforms through compatible speakers and speaker/strobes



- Utilize a simple and easy to use graphical interface on the QX-MINI configurator
- Convenient user experience with features such as drag and drop of modules, and visual representation of correlations through zone activated/deactivated option





Example audio system with a FACP, a QX-MINI Master Panel, two Booster Panels, and two Remote Microphones.

Specifications

Dimensions	
26"H x 14.5"W x 4.2"D	
AC Line Voltage	
120V @ 60Hz / 240V @ 50Hz (3.1 Amps / 1.57 Amp)	
Output	
30W audio (60W max.) and 2 X 2.5A NAC (5A max.)	
Battery	
24VDC, Gel-Cell/Sealed Lead-Acid	
Charging Capability	
Up to 75AH charge capacity	
Current Consumption	
Standby: 215mA	Alarm: 220mA

Indicators	
AC Power	Alarm Active
Ground Fault	Pretone Active
CPU Fault	Page Ready
Message Active	
Controls	
Zone Select (4)	Selection Reset
Message Select (8)	Lamp Test
All Call	Trouble Silence
Compatibility	
UL/ULC listed Fire Alarm Control Panels	

Ordering Information

Model	Description
QX-MINI	Master Panel: Microphone, Main Display, Main Board, 1 x 30W Amplifier, Deadfront, Red Door, Backbox, Back Plate, Transformer
QX-MINI-BP	Booster Panel: Outer Red Door, Main Board (acting in slave mode), 1 x 30W Amplifier, Backbox, Back Plate, Transformer
QX-MINI-RM	Remote Microphone: Backbox, Red Door, Microphone, RMIC PCB
QX-MINI-LOC	Local Operating Console: Main Display, Microphone, RMIC PCB, Deadfront, Backbox, Red Door
QAD-30	30 Watt Amplifier Module
QAZT-5302DS	24 Zone Controller
QAS-2X8	Audio Amplifier Splitter



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