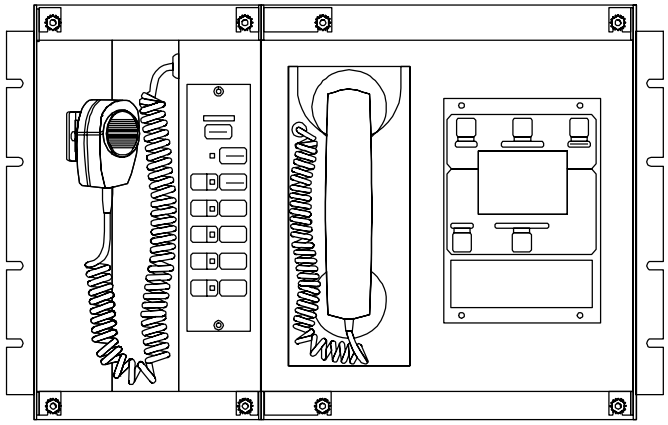
3-ASU/FT - Audio Source Unit with Firefighter's Telephone (3-FTCU)

Product description



The Audio Source Unit with Firefighter's Telephone (ASU/FT) consists of the 3-ASU Audio Source Unit (ASU) and the 3-FTCU Firefighter's Telephone Control Unit (FTCU) mounted on a common chassis. The firefighter's telephone option in conjunction with the audio source unit provides the main telephone riser. The telephone circuit requires a separate hardwired riser and is not multiplexed over the network audio riser. The riser is supervised by the URSM. The ASU/FT requires one chassis space within an enclosure.

Operation

When an operator lifts the handset on a remote firefighter's telephone, the buzzer at the ASU/FT sounds to indicate an incoming call. The corresponding incoming call LED on a control/display panel flashes slowly to indicate the pending call.

To silence the buzzer, the operator presses the Silence button on the ASU/FT. To connect the pending call to the ASU/FT, the operator lifts the handset at the ASU/FT and presses the corresponding phone switch at the control/display panel. The incoming call LED then stops flashing and remains on. A steady call LED indicates that the connection has been made and communication can begin.

When the URSM detects a trouble on the FTCU riser, the corresponding LED on the control panel turns on.

Specifications

Cabinet installation: One chassis space
Rack dimensions: 12.0 x 19.0 x 5.25 inches (30.48 x 48.26 x 13.34 cm)
Current requirements:
- Standby current: 112 mA
- Alarm current: 112 mA

Options: 3-ASUMX/nn Memory (nn = minutes of messages)
Ground fault impedance: 0.1 Ω
Options: 3-ASUMX/nn Memory (nn = minutes of messages)
Audio channels: 8 simultaneous
Audio inputs
- Local microphone (isolated and supervised)
- Remote microphone (isolated and supervised)
- Firefighter's telephone (isolated and supervised)

Prerecorded message storage
- 2 minutes standard (expandable to 100 minutes)

Auxiliary input: Not used
Telephone riser
- EOL resistor: 15 kΩ
- Active telephones: 5 max.
- Wire type: 1-2 pair twisted-shielded, 18 AWG (0.75 sq. mm) min.
- Configuration: Class A/B
- Max. line impedance: 52 Ω, 0.2 µF

Termination
- Message download: Modular phone jack
- Remote microphone: Plug-in terminal strip on 3-ASU
- Auxiliary input: Plug-in terminal strip on 3-ASU
- Firefighter's telephone: Plug-in terminal on 3-FTCU

Operating environment
- Temperature: 32 to 120°F (0 to 49°C)
- Humidity: 93% RH, noncondensing at 32°C

Controls and indicators

Item	Description
	3-ASU
Page level meter	Indicates paging volume. When paging, speak at a level that causes the far right LED to only flicker occasionally.
Ready to Page LED	Green LED flashes during preannouncement tone, on steady when system is ready to page
All Call switch/LED	Green LED on indicates the ASU is in All Call mode. Pressing All Call directs the page to all areas of the facility. To exit All Call mode, press the switch a second time or press the All Call Minus, EVAC, or Alert switches.
All Call Minus switch/LED	Green LED on indicates the ASU is in All Call Minus mode. Pressing All Call Minus directs the page to the areas of the facility that have not been automatically selected to receive the EVAC or Alert tone/message. To exit All Call Minus mode, press the switch a second time or press the All Call, EVAC, or Alert switches.
Phone Page switch/LED	Green LED on indicates the ASU is in Phone Page mode. Pressing Phone Page replaces the paging microphone (item 2) with the firefighter's telephone system. Individuals in remote areas of the facility can then issue a page via the firefighter's telephone system. All phone paging is under the direct control of the ASU operator. Press the switch a second time to disconnect the Phone Page mode.
EVAC switch/LED	Green LED on indicates the ASU is in EVAC mode. Pressing EVAC directs the page to areas of the facility that are automatically receiving the evacuation tone/message. To exit EVAC mode, press the switch a second time or press the All Call, All Call Minus, or Alert switches.

Item	Description
Alert switch/LED	Green LED on indicates the ASU is the Alert mode. Pressing Alert directs the page to areas of the facility that are automatically receiving the Alert tone/message. To exit Alert mode, press the switch a second time or press the All Call, All Call Minus, or EVAC switches.
	3-FTCU
Connect switch	The connect switch connects the incoming calls to the master telephone handset
Review Pending switch	The review pending switch scrolls the list of pending incoming calls
ACKnowledge switch	The acknowledge switch silences the call-in buzzer
Disconnect switch	The disconnect switch is used to remove the connected phone which is shown in reversed text on the bottom of the display
Review Connected switch	The review connected switch scrolls the list of connected calls on the bottom of the display

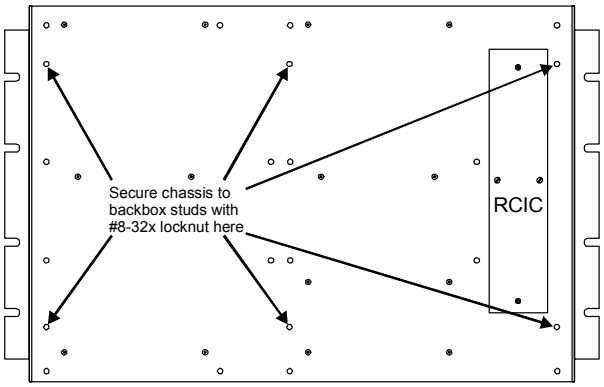
Installation instructions

WARNING: Disconnect power to cabinets before installing or removing components. Failure to do so may result in serious injury or loss of life.

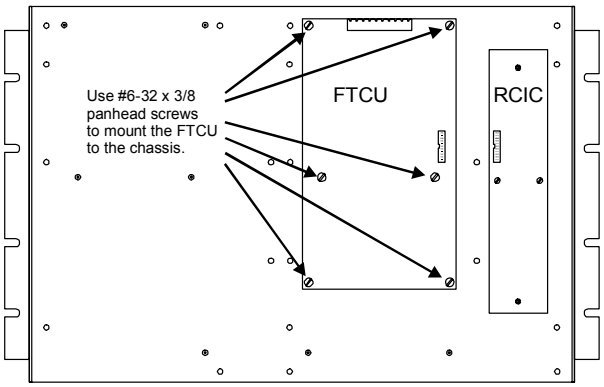
Caution: This equipment contains components that are sensitive to static electricity. Failure to follow proper handling procedures may cause equipment damage.

Installing the ASU and FTCU

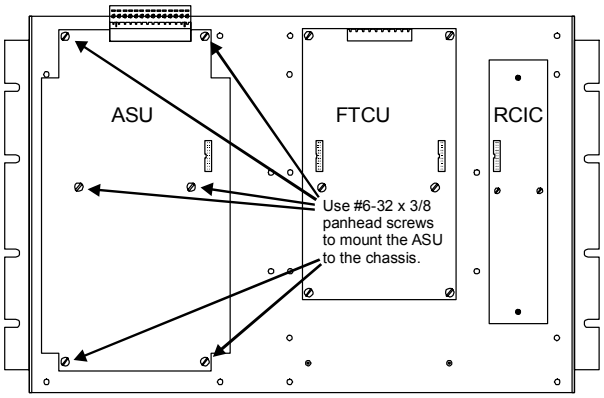
1. Mount the chassis assembly on the backbox mounting studs using the hardware provided. (Align the studs with the holes indicated by the arrows in the figure below.)



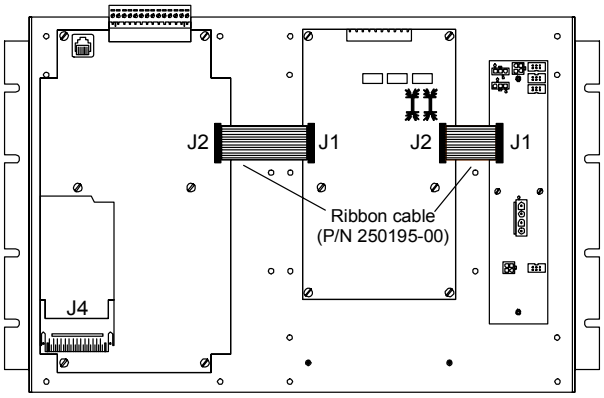
2. Secure the FTCU board to the designated stand-offs in the figure below with the 6/32 x 3/8 panhead screws provided.



3. Secure the ASU board to the designated stand-offs in the figure below with the 6-32 x 3/8 panhead screws provided.



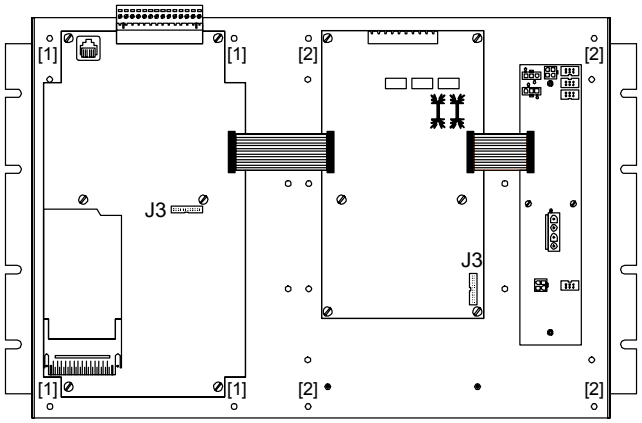
4. Connect the first ribbon cable (P/N 250195-00) from J1 on the Rail Chassis Interface Card (RCIC) to J2 on the FTCU. Connect the second ribbon cable from J1 on the FTCU to J2 on the ASU.



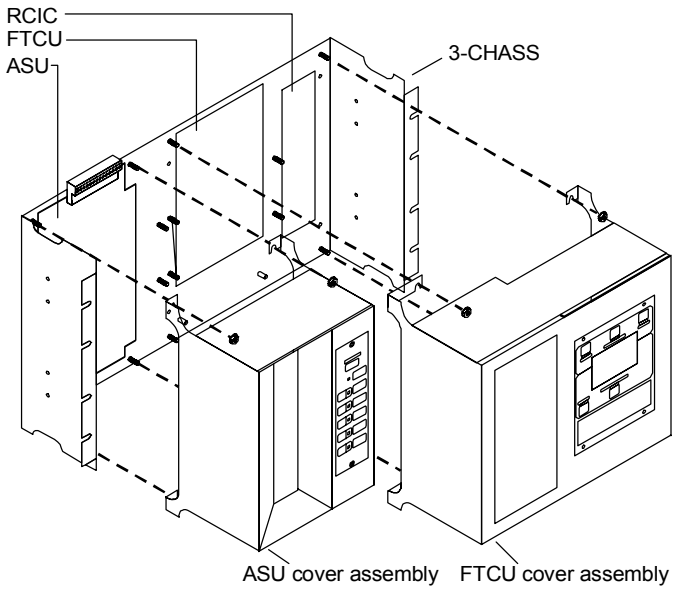
5. If used, install the 3-ASUMX memory card in connector J4 on the ASU. Make sure the Write Protect switch is in the “off” or “write enabled” position.
6. Connect the RCIC cabling as shown on this installation sheet.
7. Wire the ASU as shown on this installation sheet.

Installing the cover assemblies

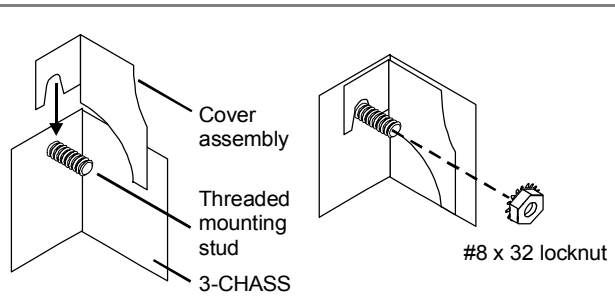
1. Lower the ASU cover assembly onto the designated mounting studs. See the cover mounting diagrams below.
2. Connect the ribbon cable from the ASU cover assembly to J3 on the ASU board.
3. Secure the ASU cover assembly to the 3-CHASS with the locknuts provided in the hardware kit. See the Detail diagram below.
4. Lower the FTCU cover assembly onto the designated mounting studs. See the Cover mounting diagrams below.
5. Connect the ribbon cable from the FTCU cover assembly to J3 on the FTCU board.
6. Make sure the microphone cable is securely connected to the board.
7. Secure the FTCU cover assembly to the 3-CHASS with the locknuts provided in the hardware kit. See the Detail diagram below.



Cover mounting diagram



Cover mounting diagram



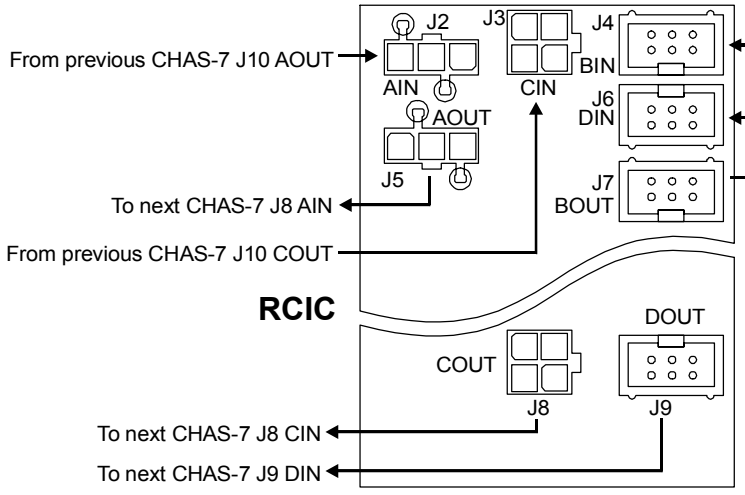
Detail diagram

Notes

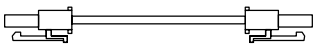
[1] Mounting stud for the ASU cover assembly

[2] Mounting stud for the FTCU cover assembly

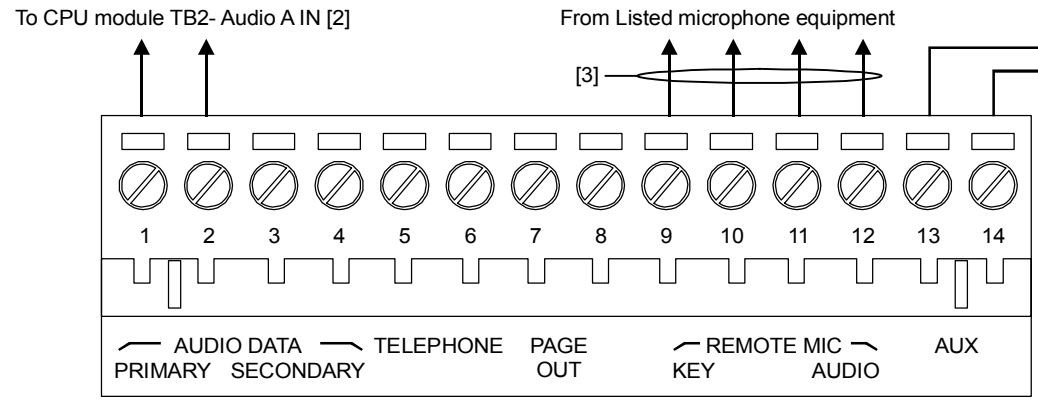
Rail Chassis Interface Card (RCIC) cabling instructions



RCIC Cable/Connector Guide

P/N	Cable	Connector
P/N 250190		
P/N 250191		
P/N 250192		

ASU wiring diagram



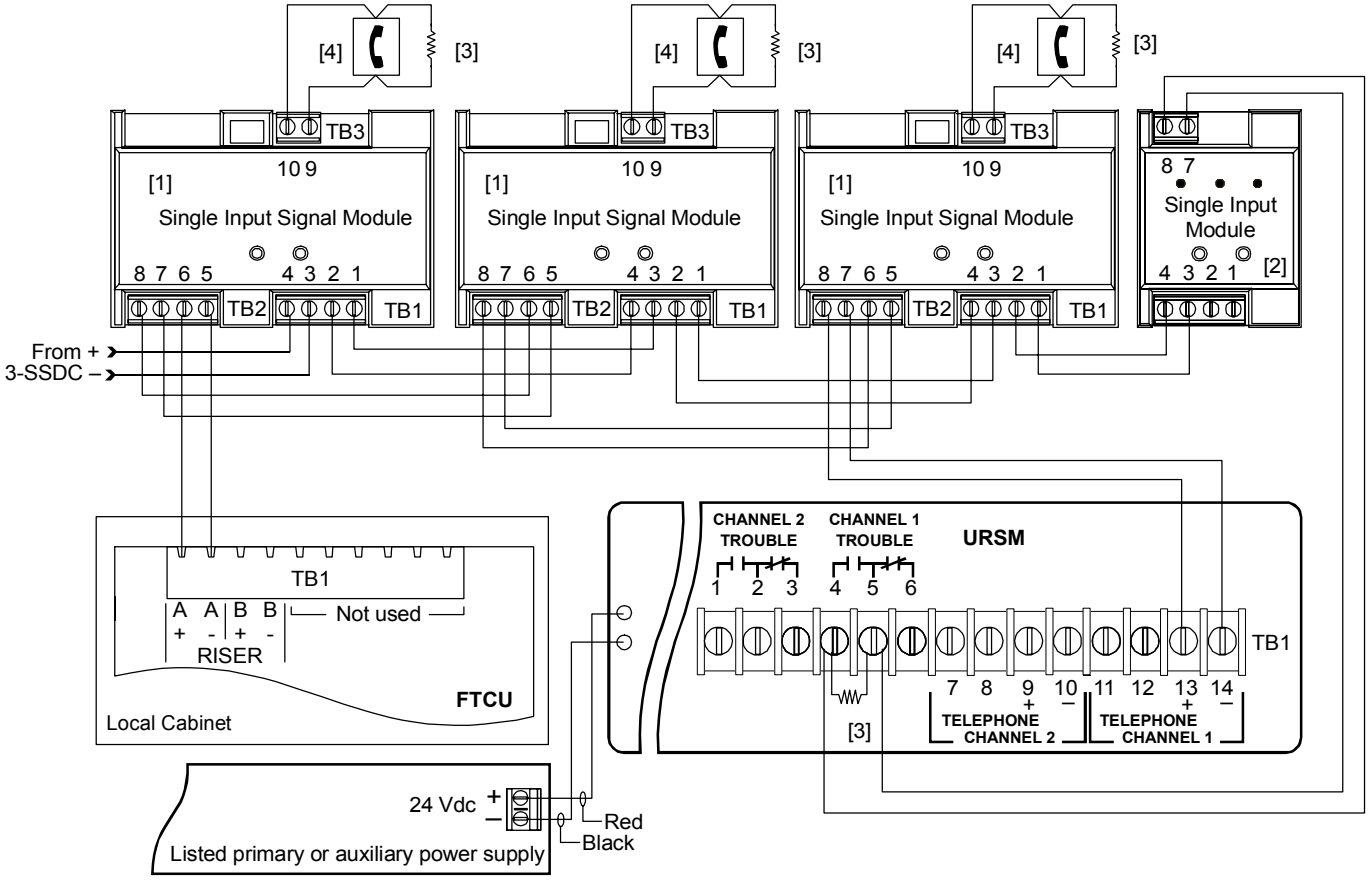
Notes

1. All wiring is supervised and power-limited

[2] Connect to TB2 Audio A OUT +/- on the CPU when installed in non-network applications

[3] Wiring must be installed in conduit

FTCU wiring diagram



Notes

[1] Set Single Input Signal Modules to personality code 6

[2] Set Single Input Modules to personality code 3

[3] UL/ULC listed 47 k□ EOL

[4] Class B (Style Y), twisted-shielded wires

5. All shields shall be continuous and insulated from ground, except at the originating panel

6. All wiring is power-limited