EDWARDS

3-ASU/FT Audio Source Unit with Firefighter Telephone Installation Sheet

Description

The 3-ASU/FT provides controls for emergency paging and two-way communication between the fire alarm control panel and firefighter telephone stations.

The 3-ASU/FT can store and play back prerecorded messages and has inputs for connecting remote microphones and MN-FVPN VoIP Encoder/Decoder modules.

The 3-ASU/FT requires one chassis space in an enclosure.

Specifications

Voltage	24 VDC
Current	
Standby	112 mA
Alarm	112 mA
Ground fault impedance	0.1 Ω
Wire size	
ASU card	22 to 12 AWG (0.5 to 2.5 mm²)
FTCU card	22 to 14 AWG (0.5 to 2.5 mm²)
Dimensions	12.0 × 19.0 × 5.25 inches (30.48 × 48.26 × 13.34 cm)
Mounting	One chassis space
Audio channels	8 simultaneous
Audio inputs	Local microphone (isolated and supervised) Remote microphone (isolated and supervised) Firefighter's telephone (isolated and supervised) Remote audio (isolated and supervised)
Prerecorded message storage	Two minutes expandable to 100 minutes with optional 3-ASUMX/nn memory card
Telephone riser	
EOL resistor	15 kΩ (P/N EOL-15)
Active telephones	5 max.
Wire type	Twisted pair, shielded
Configuration	Class A or Class B
Line impedance	52 Ω, 0.2 μF, max.
Operating environment	
Temperature	32 to 120°F (0 to 49°C)
Humidity	0 to 93% RH, noncondensing at 90°F (32°C)

Installation

WARNING: Remove all sources of power from the cabinet before installing or removing components. Failure to do so may result in serious injury or loss of life.

1. Attach the chassis to the backbox using the hardware provided. Align the backbox mounting studs with the holes indicated in Figure 1.

2. Attach the ASU and FTCU cards to the chassis using six 6/32 × 3/8 pan head screws each. Press the RCIC card onto the PEM studs. See Figure 2.

3. Connect ribbon cables (P/N 250195-00) between the ASU card, the FTCU card, and the RCIC card.

4. If used, install the 3-ASUMX memory card. Make sure the write protect switch is in the "off" or "write enabled" position.

5. Connect the RCIC card to the other chassis rail assemblies. See Figure 7.

6. Plug the ribbon cable (P/N 250194-00) from the 3-ASU cover assembly into J3 on the ASU card. See Figure 4.

7. Lift the 3-ASU cover assembly onto the chassis mounting studs then attach it with the locknuts provided in the hardware kit. See Figure 3.

8. Plug the ribbon cable (P/N 250194-00) from the 3-FTCU cover assembly to J3 on the FTCU card. Make sure the microphone cable is securely connected. See Figure 4.

9. Lift the 3-FTCU cover assembly onto the chassis mounting studs then attach it with the locknuts provided in the hardware kit. See Figure 3.

Contact information

For contact information, see www.edwardsutcfs.com.
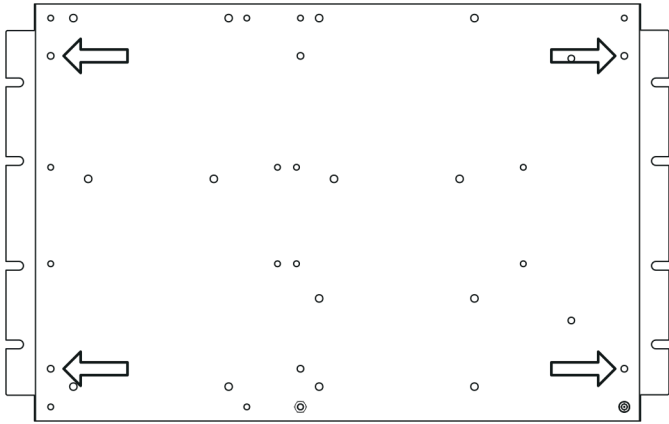
Figure 1: Chassis mounting diagram

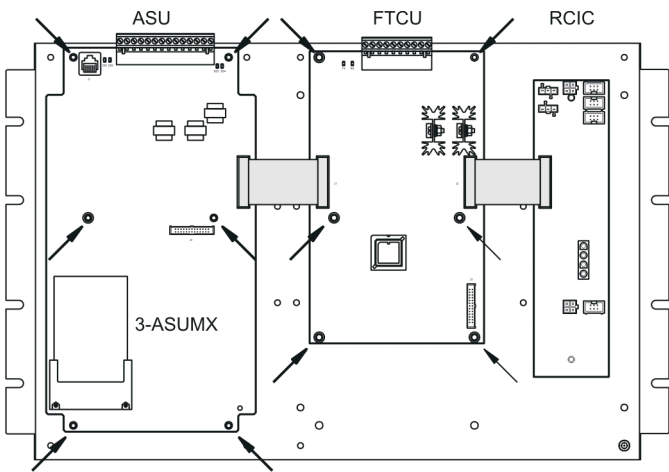**Figure 2: Circuit board mounting diagram**

ASU   FTCU   RCIC

3-ASUMX

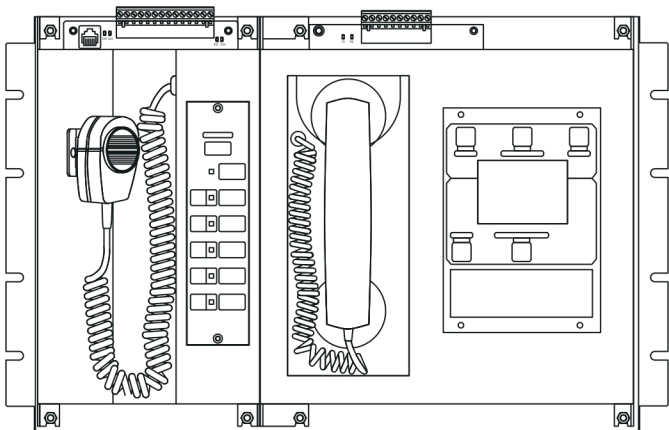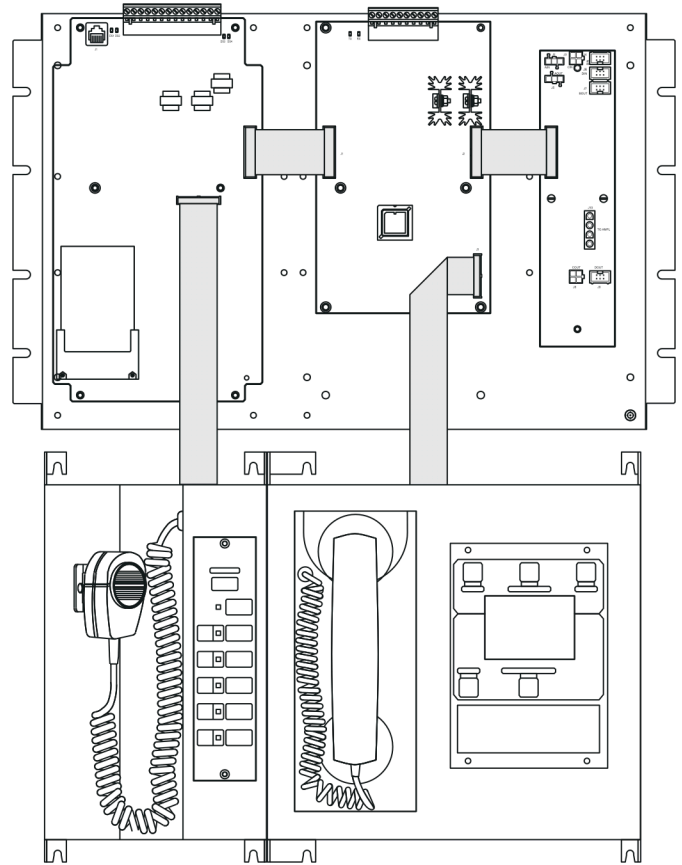**Figure 3: Installation complete**

Figure 4: Cover installation

Wiring

Wire the 3-ASU/FT as shown in Figure 5, Figure 6, and Figure 7.

Notes

- All wiring is supervised and power-limited.

- If a 3-RS485 card is not installed, connect AUDIO DATA PRIMARY on the ASU card to AUDIO A OUT on the 3-CPUx card. See Figure 5.

  If a 3-RS485 card is installed, connect AUDIO DATA PRIMARY on the ASU card to AUDIO A IN on the 3-CPUx card.

- Wiring from a 3-REMICA or 3-REMICP must be shielded and enclosed in conduit. See Figure 5.

- All shields must be continuous and insulated from ground, except at the originating panel.

- The REMOTE input is for MNEC applications only. Not for supplemental use.

- Terminate Class B telephone risers with a 15 kΩ EOLR. Do not install an end-of-line resistor if the riser is wired Class A. See Figure 6.
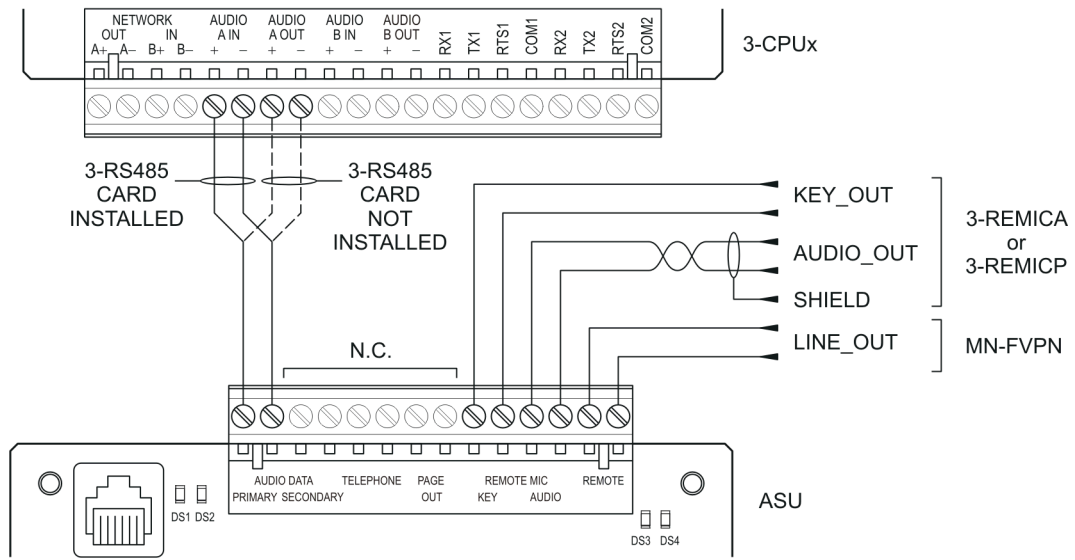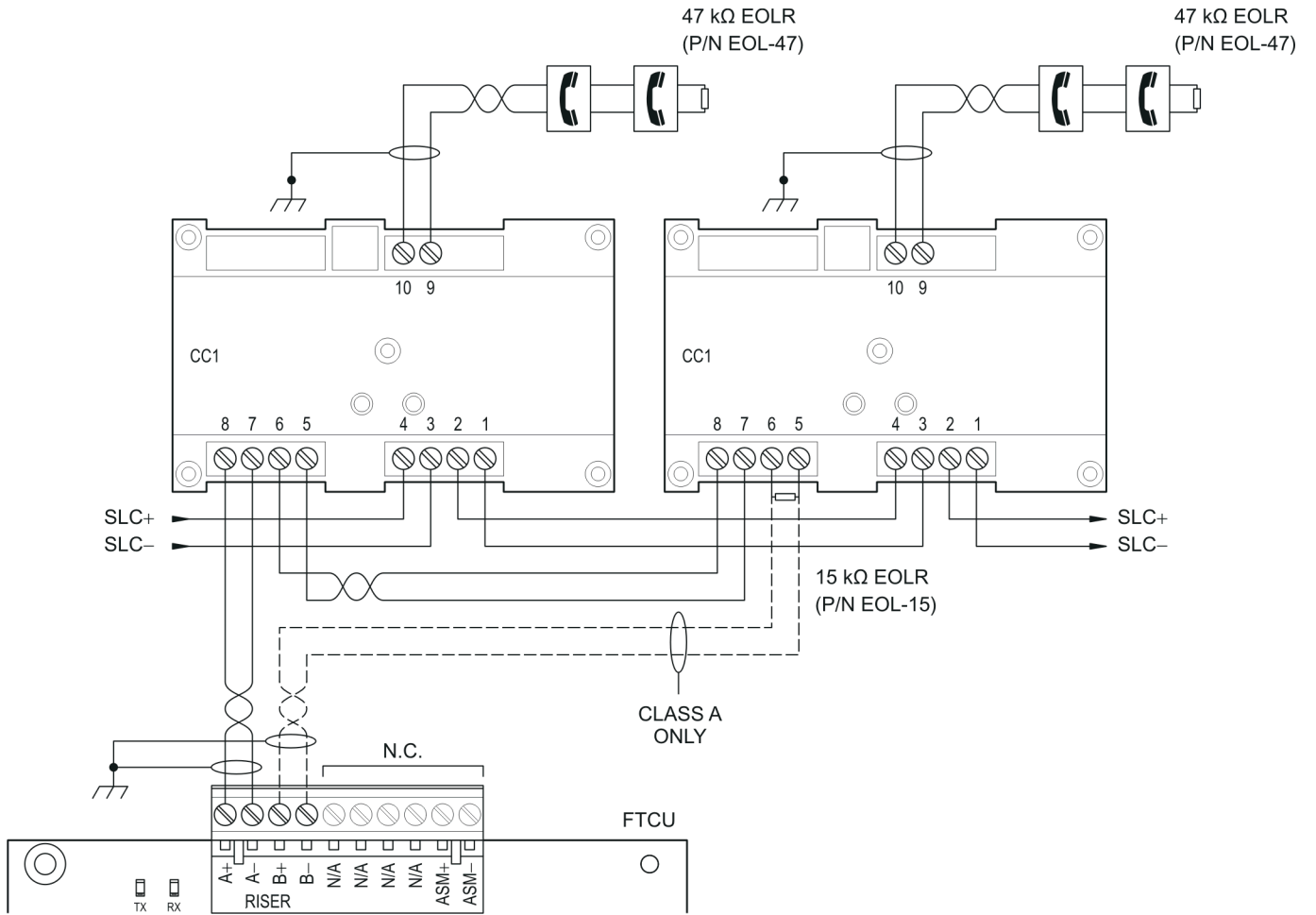
Figure 5: ASU card wiring diagram

Figure 6: FTCU card wiring diagram

Figure 7: RCIC card wiring diagram