

1009505000

# FBSAR

Audio Interface Unit



## Description

- ✓ Provides interface to non-selective radio systems (1 base station)
- ✓ Two relays for busy marking of external equipment and transmitter keying
- ✓ Two optocouplers, which may be used for mutual busy marking
- ✓ Provides interface to PA systems (2 PA zones)
- ✓ DC termination of two subscriber outputS
- ✓ Two filters to remove carrier for display data signals on two subscriber audio outputs
- ✓ Second channel may be used as filter / PA adapter only
- ✓ Galvanic separation between the exchange and external equipment
- ✓ +24 V supplied from the AlphaCom E26 exchange via Power Distribution Board (PDB), needed only if the relays are used

The Filter Board and Speech Adapter with Relay provides an interface to PA systems. It has filters that remove the display data carrier from the audio. In this way, excessive heating of power amplifiers is prevented. It also provides DC termination to subscriber outputs (corresponding to non-display stations).

For interface to non-selective mobile radios, it provides two relays that are controlled by RCO, C-wire for busy marking of the external equipment and control of transmitter keying. There are also two optocouplers that can be used for mutual busy marking.

The board has two audio transformers that provide galvanic separation between the intercom exchange and external equipment.

The relays use +24 V from the exchange. If the relays are not used, no power is required. The FBSAR is fastened onto the mounting rail on the connection field of the AlphaCom exchange.

# Specifications

## GENERAL

|   |                                |
|---|--------------------------------|
| Input Voltage:;Maximum Current:                       | +24 VDC, 20 mA (relays)        |
| Audio input level                                     | 5 mV - 1.5 V                   |
| Audio output level                                    | 0-7 V                          |
| Input impedance                                       | 600 ohm                        |
| Output impedance                                      | 600 ohm                        |
| Cable requirements between the board and the exchange | 0.5 mmø / 22 AWG               |
| Connection to the AlphaCom exchange                   | Cables provided with the board |
| Recommended room temperature (non-condensing)         | 0°C to + 35°C, +32°F to + 95°F |
| Dimensions  | 100 x 100 mm, 3.9" x 3.9"      |