## Overview

Alliance memory expanders are used to expand the number of PINs or card holders in the system as well as the card format. Memory expansion chips are available in 1MB, 4MB, and 8MB.

The AL-1830, AL-1831, and AL-1832 memory expansion devices are fitted on Alliance control panels and door or elevator controllers. All devices that support memory expansion must have the same unit fitted.
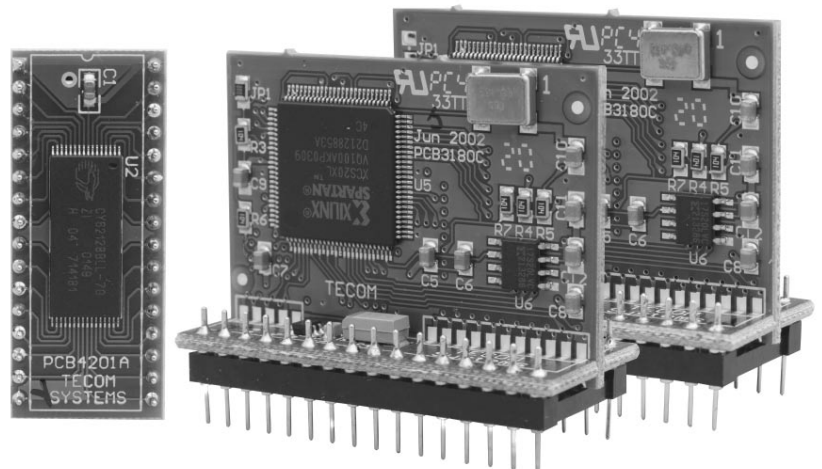
Alliance control panels support IUM (Intelligent User Memory) capacity using dedicated hardware such as the AL-1831 and AL-1832 as well as software. Once enabled, IUM expands the total number of users and can also add system functionality such as support for up to 48-bit card format.

## Features

- Increases the total number of PIN or card users on the system

- Allows up to 48-bit card formats

- Adds to the number of door or floor groups, holidays, and access/alarm events on a system

# AL-1830/
# AL-1831/
# AL-1832

## Alliance memory expanders

| | AL-1830 1MB Memory | AL-1831 4MB IUM | AL-1832 8MB IUM |
|---|---|---|---|
| **Using Standard memory/Hardware IUM** | | | |
| Users Total | 11,466 | 12,872 | 55,532 |
| *User defined PIN codes (of total) | 1,000 | 12,872 | 55,532 |
| **Number of stored user names (of total) | 200 | 200 | 200 |
| ***Alarm Groups | 138 | 138 | 138 |
| Door Groups | 128 | 128 | 128 |
| Floor Groups | 64 | 64 | 64 |
| Alarm Log | 1,000 | 2,000 | 2,000 |
| Access Log | 1,000 | 5,000 | 10,000 |
| Installer Log | 10 | 10 | 10 |
| Batch Card Loading | Yes | No | No |
| 26-bit Wiegand Format Support | Yes | Yes | Yes |
| Up to 48-bit Wiegand Format Support | No | Yes | Yes |
| **Using Software IUM** | | | |
| Users Total | 2,000 | | |
| *User defined PIN codes (of total) | 2,000 | | |
| **Number of stored user names (of total) | 200 | | |
| ***Alarm Groups | 138 | | |
| Door Groups | 128 | | |
| Floor Groups | 64 | | |
| Alarm Log | 1,000 | | |
| Access Log | 1,000 | | |
| Installer Log | 10 | | |
| Batch Card Loading | No | | |
| 26-bit Wiegand Format Support | Yes | | |
| Up to 48-bit Wiegand Format Support | Yes | | |

\*　Note: When a control panel is not set up for IUM (hardware or software), the system will create/assign PIN codes once the maximum is reached. PINs 1000+ can only be used with doors requiring Card + PIN. When either software IUM mode is chosen or a hardware IUM is fitted, the number of PIN users equals the max number of users.

\*\*　Note: The first 16 characters are stored.

\*\*\* Note: The first 10 alarm groups are hard coded.

## Specifications

| | |
|---|---|
| Power supply | Panel bus, 9 to 14 VDC |
| Current consumption | 100 mA |
| Operating temperature | 32 to 122°F (0 to 50°C) |
| Regulatory | FCC, UL, UL294, UL365, UL609, UL1610, UL1635 |

## Ordering information

| | |
|---|---|
| AL-1830 | 1MB memory expander |
| AL-1831 | 4MB memory expander |
| AL-1832 | 8MB memory expander |