



# TECHNICAL Practice

**TELECOM SOLUTIONS FOR THE 21ST CENTURY**

**AES-IrDA**  
IrDA/Card Reader  
Interface Board

March 15, 2002

## Add IrDA Control and Card Reader Capability to Your AES-2000

The **AES-IrDA** Interface is an add-on option board for the **AES-2000** Accessible Entry Systems. The **AES-IrDA** board provides the **AES-2000** with the capability to receive infrared communication as well as accept data from a card reader. The option board is set up to supply power to the card reader as well as handle the data in standard 26 bit Wiegand format. The board is designed to work with HID Corporation proximity card readers. The data from the card is compared to the pre-programmed keyless entry codes stored in the **AES-2000** system. If there is a match, the **AES-2000** will actuate the door strike as well as clock and date stamp the event for logging purposes.

The IrDA transmitter-receiver allows the **AES-2000** to be controlled from a hand held transmitter. Any of the front panel push buttons on the **AES-2000** can be actuated from the hand held transmitter. The information on the **AES-2000** front panel display will appear on the display of the hand held transmitter. Using this remote device, a person with limited physical abilities can operate the entry system.

**Note:** The remote control features require an IrDA hand held transmitter which is not yet available.

## Features

- Mounting hardware included
- Allows remote control of the **AES-2000** system
- Accepts data from HID card readers using standard 26 bit Wiegand format
- Provides 5 volt power to the card reader
- Mounts behind the **AES-2000** front panel

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## Applications

Allows card entry in:

- Senior apartments
- Gated communities
- Dormitories
- Office complexes
- Secured areas

Phone...715.386.8861

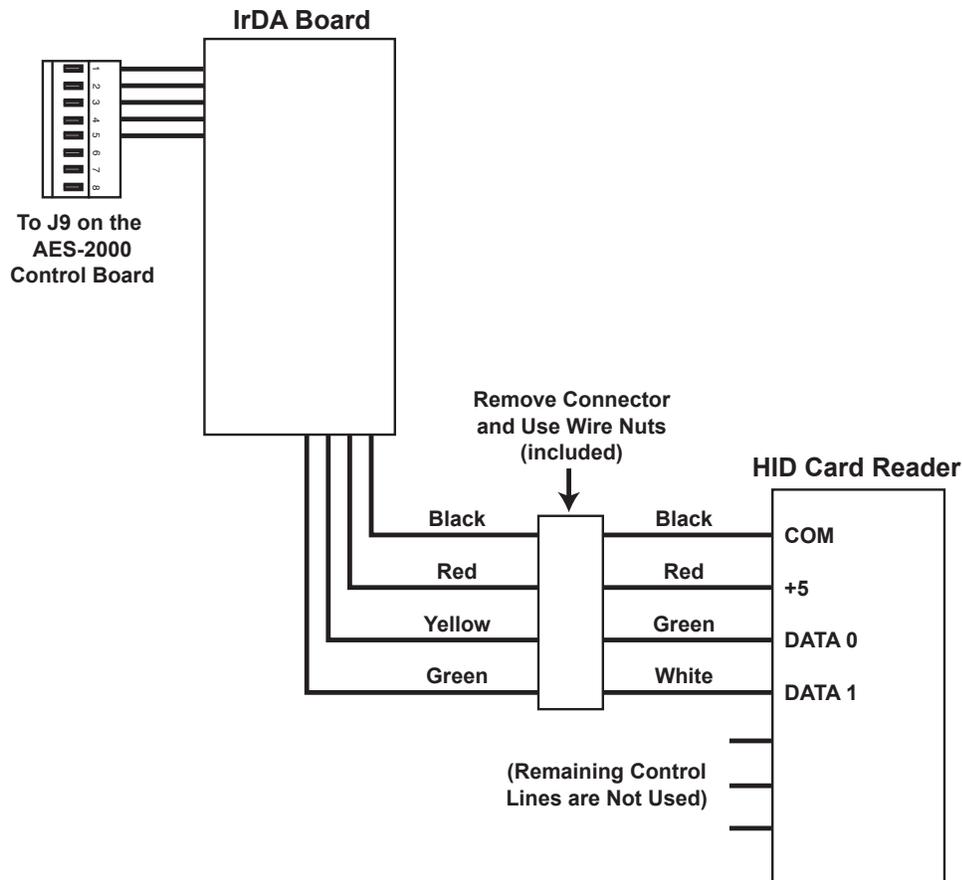
Made in the U.S.A.

## Specifications

**Power:** Powered from **AES-2000** control board  
**Dimensions:** 38mm x 76mm (1.5" x 3.0")  
**Shipping Weight:** .45Kg (1 lb)  
**Environmental:** -26° C to 54° C (-15° F to 130° F)  
**IrDA Control Distance:** 1 meter  
**Card Reader Connection:** Modular  
**Card Reader Power:** 5 volt 100mA maximum



# Wiring



# Programming

The **AES-IrDA** card reader interface uses the standard 26 bit Wiegand format. The **AES-2000** can accept facility loads 00-99 and card numbers 0000-9999. To avoid duplicating codes that HID uses for samples, it is best to use facility codes 20-99 and card numbers 1000-9999. The six digits used for the keyless entry code, must match the facility and card number for a given tenant.

**Example:** Facility code 9 and a card number 52 would need a keyless entry code of **090052** programmed into the **AES-2000**.

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