

## Electronic Access Module Introduction

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The Electronic Access Module (EAM) shall be a flexible entry and security system, equipped with programmable control, that shares the basic goals and requirements defined for THAT System. It will be designed for residential and light-commercial buildings. The EAM will be able to function as a stand-alone device or in a larger THAT System to provide maximum flexibility and functionality. This module will be developed by Chris Miller in collaboration with Nick Viera.

### Hardware Design Goals

- Backlit, monochromatic LCD display
- Passcode keypad
- Wireless receiver for basic lock/unlock remote control
- Encrypted wireless key-chain dongle support
- LED indicators for easy system status notification
- Non-volatile memory for storing “permanent” system settings
- Battery-backup for temporary settings

### Software Design Goals

- Support for access input modules (doorbell, keypad, wireless dongle, card reader, etc.)
  - Support for access output modules (relays for door strikes, keyless deadbolts, and magnetic door closers)
  - Support for security input modules (window / door, smoke / CO, motion, water, etc.)
  - Support for security output modules (siren, phone / SMS / email notifier, X10 / Insteon, etc.)
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