Access Cards

See also: Building

Use case:

- Doors are unlocked either via
  - An access code
  - A one time PIN receive by email or SMS

In this project we were looking for any kind of an access card system for an office but open source which will be use in the future (at WikiSuite) there's a lot of alternative project which talk about this with more details me i am going just to present them to you so late start

ForkPi

A door access control system that is more accessible to the world. ForkPi stands for Fingerprint, OLED, RFID, Keypad, and Raspberry Pi.
What You'll Need:

1. A Raspberry Pi
2. Fingerprint Scanner: Fingerprint Scanner - TTL (GT-511C3)
3. RFID Scanner: PN532 NFC/RFID Controller Breakout Board
4. RFID Card: MiFare Classic (13.56MHz RFID/NFC) Card
5. Display: Monochrome SPI OLED Graphic Display
6. Keypad: Membrane 3x4 Matrix Keypad
7. Wires: Premium Female/Male Jumper Wires

It supports five different authentication mechanisms involving three factors: RFID, fingerprint and PIN. The single-door access control provided by SpoonPi easily scales to multiple doors via the accompanying web app, ForkPi, which provides secure, centralized management of multiple SpoonPis over a local network.

for more details

wiegand-demo

This project implements a very common access control device. The LTPS is equipped with Tibbit #08 (clock/data and Wiegand interface). It gets card codes from an external RFID card reader. The project lets you save user names and their ID codes into the database, as well as verify the cards you read against the records of the database. When you read a card which ID code matches any ID code from the database, the terminal "grants access" (the blue LED turns on). If this ID code has no match in the database, the terminal "denies access" (the red LED turns on).
Some other distinctive features of this project:

The project utilizes a full-featured embedded SQLite SQL database engine.

1. The web interface shows card reader events in a real time.
2. This simple project demonstrates all main techniques that are important to building access control solutions with LTPS.

for more details

open-access-control

Uses the Arduino open-source hardware to build a robust access control and alarm system.

It attaches to a standard Arduino as a shield and provides: * Wiegand26 reader support (Two readers in v2.x hardware, up to 3 possible in software) * Real-time clock (DS1307 RTC in v2.x hardware) * On-board 5V switching power supply (1A rating) * Alarm monitoring with multiple zones (4 in current hardware, uses analog inputs) * Syslog-like serial logging * 200 user local database stored in eeprom memory. * Extensible and easy to modify.
for more details

ISBS’s Door Access Systems

ISBS has several products and solutions to help you manage your documents and systems. However, that’s not all that we offer. With our door access systems, we can help you manage the people who enter your workplace too.

With effective access control, your organization can track patterns of movement within your office. This could involve:

1. Card Readers
2. Turnstiles
3. Electronic Gates

for more info

IBioAccess

he most innovative biometric fingerprint reader for access control applications, offering unparalleled performance using an advanced algorithm with excellent reliability, precision and match- ing speed.

1. Capacity FFingerprint: 500 ; Card 500
2. Operating Voltage DC 12V±10%
3. Operating Current 100mA
4. Dimensions 88×88×33.6mm
5. Weight 110g
6. Ambient Temperature 0°C – 40°C

there's different fingerprints with more feature here

DaBL-Card-Access

it's an access card system using RFID too with some utilities like Badge-in, badge-out at the main station for safety waiver confirmation and data gathering and Limiting access to machine-specific computers
more info here

See also

- http://serverfault.com/questions/342380/open-source-system-for-swipe-card-access