

# FS22/21M

## Fingerprint & Mifare Prox card

### Access Control system



A X E Z E  
Access Control Products



#### Overview

The **FS22** is a high performance fingerprint recognition access control and Time and Attendance device utilising a powerful digital signal processor and featuring full network control and local control modes of operation.

It can do a full-match on 700 fingerprints in one second locally and unlimited number in network mode under the control of FAS.

With a standard Ethernet interface, FS20 can be connected via LAN/Internet under the control of a single Fingerprint Authentication Server (FAS) (web server) running on Windows 2000/XP and Vista.

The **FS21M** has exactly the same features as the FS22 but with a slower matching speed because it uses a different processor.

These units are a perfect solution for applications that need to do 1-to-many matching with a large database.

#### Items in package

- 1 x FS22 or FS21M Unit
- 1 x Drivers and utilities CD
- 1 x Power supply

#### Specifications:

|                                  |   |
|----------------------------------|---|
| Modes of operation               | Local or network  |
| Wiegand interface                | 5 selectable output formats.  |
| Serial Interface                 | TTL (for Remote Relay Unit FS30)  |
| Prox reader                      | Reads and writes Mifare 1K and 4K cards                                   |
| Ethernet interface               | RJ45/10Base-T   |
| Communication security           | Encryption by Blowfish algorithm  |
|                                  | Key exchange by Diffie-Hellman algorithm.                                 |
| Fingerprint image resolution     | 480x320 pixel, 500DPI   |
| Live finger detection            | Yes   |
| Light source                     | 4 Infrared LEDs   |
| Finger scanning window           | 16mm x 24mm   |
| Fingerprint recognition accuracy | FAR $10^{-6}$ FRR $10^{-2}$   |
| Identification methods           | Fingerprint only (1-to-N matching)  |
|                                  | ID + Fingerprint (1-to-1 matching)  |
|                                  | Mifare card + Fingerprint (1-to-1 matching)                               |
|                                  | Mifare card + Fingerprint stored on card (1-to-1 matching)                |
|                                  | Mifare card + pin   |
|                                  | Mifare card only  |
|                                  | PIN only  |
| Number of fingerprints per user  | 3   |
| Mifare Card read range           | 30mm  |
| Memory                           | Local mode up to 3000 fingerprints  |
|                                  | Network Mode Unlimited number stored and recognised by the FAS web server |

Axeze Pty. Ltd. ABN 83 077 328 851  
PO Box 387, Hindmarsh, South Australia 5007  
+61 8 8340 8200 ph +61 8 8340 8211 fax sales@axeze.com.au www.axeze.com.au  
The above specifications are subject to change without notice

# FS22/21M

## Fingerprint & Mifare Prox card

### Access Control system



A X E Z E

Access Control Products

#### Specifications (cont.):

|                         |  |
|-------------------------|--|
| Real Time Clock battery | CR1220 3V lithium cell   |
| Operating temperature   | -10 to +55 Degrees C   |
| Display                 | 122x32 dot matrix LCD with backlight.  |
| Display Language        | English and Chinese characters   |
| User input & prompt     | Keypad with 16 keys with back light,<br>Buzzer                               |
| Door control:           | Red and green LEDs<br>Relay NC-COM-NO 12VDC/1.5A,<br>Door sense switch input |
| Power supply (Supplied) | Input 100 - 240VAC 800mA   |
| Power supply connectors | Output 12Volt 2.5Amp<br>2.5mm DC socket (J3)<br>Terminal Block (J2)          |
| Weight                  | 326g (complete package = 850g)   |
| Size                    | 140mm (W) x 110mm (H) x 41.5mm (D)   |
| Enclosure               | 3mm thickness ABS  |
| Colours available       | black or silver  |