

Flexy

MIFARE reader included. Ethernet. IP65 protection. PoE Optional.



- > Electronic Board **Ethernet** TCP/IP **small dimensioned** for real integration.
- > Highly **Flexibility** & modularity.
- > Biometric & RFID **readers**.
- > Different **finishes**.
- > Powerful KXP communication protocol, with complete integration network capacity.
- > **PoE** optionally.



Access Control Kimaldi Flexy

Access Control Devices with several finishes.

Flexy RFID + biometrics / Flexy RFID



Flexy for OEM integration



Electronic board Flexy



Software Tools

The new generation of Kimaldi devices includes KXP protocol which joins all Kimaldi products under the same language, whenever the sort of connection they use.

This protocol includes **KProduct Library**, completely programmable to organize the commands needed to cover all Access control needs.

KProduct library allows detecting and placing all connected items and so can do action in a specific element, like:

- Manage the KXP network
- Data Exchange with network devices
- Fix bugs
- Firmware actions, like updating

Very important and useful to speed up actions like update and fix network devices.

Description

Online Flexy is part of the new Kimaldi electronics generation compatible with KXP communication protocol, so the application can control the device completely by using all methods and events of the KProduct library.

Flexy integrates in just one board:

- 1 MIFARE reader (ISO 14443A-3)
- 1 fingerprint biometric FIM reader
- Clock&Data or Wiegand ports for additional readers
- Ethernet connectivity and 2 RS-232 ports
- 1 relay
- one tricolour led and a buzzer, both configurable
- 2 digital inputs

All accessible in real time from Host, both through its serial port as its Ethernet UDP-KXP connectivity.

With all these features we get an ideal terminal to implement access control systems which need writing/reading RFID cards or biometric identification.

Models and Finishes

Flexy is a highly flexible device with different finishes.

- > **Flexy RFID Mifare Terminal.** Box finish. IP65 protection.
- > **Flexy RFID Terminal + Fingerprint biometrics.** Box finish. Includes FIM module for biometric reading. IP65 protection.
- > **Flexy for integration Kit OEM.** Electronic board for integration. Allows integration in turnstile.
- > **PoE option (Power over Ethernet).** It integrates power supply and network communication through the same cable.

Applications

Access Control board Flexy is a versatile device allowing different applications, all type and combinations with other devices.

- > Access control to installations.
- > Flexy connected to a 16 relays card. Allows managing up to 16 different points:
 - o Access control to showers, padel court...
- > Management and control of resources.
 - o Water control in showers.
 - o Light control in sport courts.
- > RFID payment. Electronic wallet.
- > Booking management.
- > Management and control of several devices connected through network for:
 - o Sport centres
- > Leisure centres
- > Hotels and restaurants

Technical Specifications

Power supply depending on versions	5 VDC +/-10%
Power Energy	PoE (Power over Ethernet) 220mA
RF Reader	Mifare (ISO-14443-3) Embedded Antenna on board Reading distance 50 mm. aprox.
TTL Port	Connection for Clock&Data reader, ABA Track-2 Connection for Wiegand 26, 34 and free reader
Biometric Sensor	Nitgen FIM5360, 4060, 6060 Connected to serial port
Relay	1 relay, power free, 24V/1A (N.C.) (24/1A: 500.000 commutations)
Digital inputs	2 digital inputs
LED signalling	Tricolour Led Green, Red and Blue.
Buzzer	Integrated on board.
Communications	Ethernet 10 Base-T 2 RS-232 ports
Size	65 x 65 x 20(h) mm.
Temperature Range	-10°C to 60°C