



Your specialist in identification

Access Control, Time&Attendance Control and
Production Control

Kimaldi KVega

Total flexibility and high scalability



- > Versatile and flexible device.
Completely programmable.
- > Touch screen 4,3 inches.
- > Basic connectivity USB and RS-232.
Wi-Fi and Bluetooth optional.
- > Fingerprint reader and RFID.
- > Operative System Windows CE. Android
and Linux optional.
- > Different finishes: for integration
or boxed.



Kimaldi KVega board

Versatile and flexible device for access control and time&attendance control.

KVega electronic board is conceived as a programmable terminal, to develop own applications for Access control, time&attendance and production control.

It contains:

- Control board
- Touch screen
- Operative System Windows CE

Software developed by the customer on the device.

Software Tools

- *Developing software:*
 - KCNet libraries for .NET
 - Communication protocol information
- *Demo Software:*
 - Visual Studio

Main benefits of the Kimaldi KVega board:

- Programmable device by customer
- Scalable:
 - More powerful processor
 - Big screen and high resolution
 - Operative System Android and Linux

Main Applications

- Access control and Time&Attendance control for companies.
- Access control and Time&Attendance control in high affluence of people environments, where a personal design of the application is needed.
- Production control industrial system applications.
- Applications for time, holidays, corporative messages, adds, setting



Kimaldi KVega board

Description

Kimaldi KVega is a control unit for access control and time&attendance control which allows developing on the device any sort of application for time control, production control, etc.

Kimaldi KVega is an electronic device completely flexible and scalable:

- > **Flexibility:** The customer develops software in the device by his own, with no need to adapt to existing software.
- > **Scalability:** The electronic board can be modified and changed integrating a:
 - More powerful processor
 - High resolution and big screen
 - Different operative system Android and Linux

Controller board KVega integrates RFID and biometric readers:

- > **RFID reader for identification with card:** Mifare 13.56MHz / Proximity 125kHz.
- > **Biometric Identification:** The most common product based in KVega electronic board is the KVega-FP, which integrates a FIM module of biometric identification. In this case we'll have different working modes: 1:1 identification and 1:N identification.
- > **Smart Card Reader:** For chip card identification.

System characteristics

- > Dimensions: OEM board: 131 mm x 131 mm x 42 mm
- > Power Supply: 5 VDC. ± 10%
- > Max. consume 1: 450 mA

Technical specs

CPU

Processor:	i.MX257, 400MHz ARM9
RAM:	64MB SDRAM
ROM:	128MB NAND Flash
Ethernet Interface:	10/100 Base-T
USB-OTG Interface:	High-speed USB 2.0 (Mini USB AB type)
USB-Host Interface:	Full-speed USB 2.0 (USB A type)
Serial Port:	2 complete serial ports
Camera:	Supports OV9650 camera
Audio:	Audio output phonejack connector
Available signals:	LineIn, LineOut y Mic.
Real Time Clock:	Yes, built-in
Memory card:	Micro-SD Card
Operative System:	Windows Embedded CE 6.0

Display

Size:	4.3 inch (16:9 wide display)
Resolution:	480x272
Color number:	16.7M
Touch panel:	4-wires analog resistive type

Control Electronic

Clock&Data Readers:	1 port for ABA Track2 encoding reader
Serial Readers:	2 ports RS232 for readers (biometric, prox...)
Relay:	4 relays, normally opened, 24V / 3 A
Digital input:	4 channels for relay connection
Led output:	3 LED control outputs (incompatible with wiegand)
Keypad:	Bitmap keypad 4x4
Buzzer:	Buzzer built-in
Readers Supply:	5Vdc Output, limited by a 1A fuse

Kimaldi recommends not exceeding of 500 mA.