

MIFARE® systems



The ideal **cashless solution** for the
integrated management of **any service**



Comestergroup
Competitive Through Innovation

A new *Contactless* System



Comestergroup's new contactless system uses **MIFARE® technology** to increase the possibilities offered by cashless payment methods

A system which offers all the advantages of a real electronic wallet which is able to manage up to **14 sectors** of applications corresponding to 7 different services. The 7 services memorized on a single key/card can be managed by different owners.

Each sector is **completely independent** and protected by an **encrypted key** so that it cannot be read by other owners. In this way, by inserting the key/card into a

reader only the credit loaded on a specific owner's sector will be recognised.

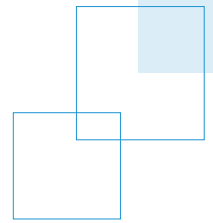
It is the ideal solution for all applications in vending, parking and general services due to its versatility, safety and practical way of collecting 14 different sales applications on a single card or key.

The advantage of MIFARE® technology

- It can manage 7 different services on a single card or key even by different owners
- Transmitted by encrypted radiofrequency
- 13,56 MHz MIFARE® technology with a higher quality performance than normal cashless systems
- Management of electronic wallet services
- 48+48 bit data protection system for each of the 14 sectors
- Resistant to electrostatic and inductive interference
- Infinite areas of applications: vending, parking and services



Full System



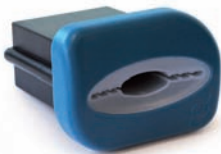
Electronic contactless keys

Waterproof, strong and resistant to electrostatic and inductive interference. The single solution for managing different vending applications even by different owners.



Electronic contactless card

It offers the same advantages as the electronic key but with the same backup as a normal credit card. It is particularly suitable for typical "electronic wallet" applications.



Universal card and key reader

Especially designed to guarantee reading/writing in both formats. Suitable for any type of vending machine predisposed for cashless systems. It has an infra-red and a serial connector to transmit auditing data and it can work with all main communication protocols MDB/BDV/EXE.



Portable universal programmer

A single portable instrument to programme and collect data from the MIFARE® readers installed in the machine. It has an infra-red transmitting connector which enables auditing data to be downloaded from the reader without opening the vending machine. It enables also cards and keys reading and writing.



The UNICO configuration programme

Universal software which combines management programmes, cashless system data collection and the programming of the contactless reader operating parameters.



General Purpose



General Purpose Unit

A single device which gives the possibility to manage various applications like entry control, door opening by electrified contacts and electronic locks, cashless payments and the management of timed systems, for example showers, hair dryers, distribution of hot water, lighting and activation of sports centres or campsite services. It can be programmed with all standard interfaces, RS232, RS485, and TCP/IP for the integration of management SW.



General Purpose Capsense Unit

It gives the same possibilities as the unit previously mentioned, in addition the pre-paid reverse counting figures can be shown on the display and a pin code can be introduced by using a capsense touch pad to guarantee a higher level of security.



Easy Pay Unit

A practical and compact device which allows the operator to reload cards, keys or customer tags and also print a receipt on thermal paper.



Desktop Unit

This unit can be interfaced with a personal computer using the Unico management programme so that the operator can carry out all card, key and tag management activities, and enter the configuration procedure, download and organise auditing data on the pc.



The UNICO configuration programme

Universal software which puts together management programmes, cashless system data collection and the programming of contactless reader operating parameters.



Cards, keys and tags

They all offer the advantages of the MIFARE® contactless technology and also have numerous possibilities of being customised.

Meisaku Kit

The Meisaku Kit is essential to connect any type of automatic payment system, such as a banknote reader or an electronic coin validator, to any type of **Horeca** machine.

The Kit, which uses **CSI protocol**, is not only a connecting interface but also a complete **cashless payment tool** which can read and write standard **MIFARE®** cards and keys.

To guarantee **maximum flexibility when installing** the Meisaku Kit is equipped with a separate antenna connected to the main unit by means of a coaxial cable.

Thanks to the Meisaku Kit it will no longer be a problem to connect a Horeca machine to any payment system.

It is quick and easy to programme with the **Unico** software, the same programming tool used to set all configuration parameters for all the other devices in the **MIFARE® Comestergroup range**.

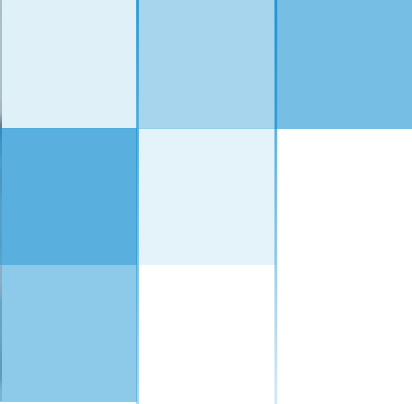
There is also the option of using a **MDB Master** interface to extend connecting possibilities so that another cashless payment system can be connected.



Features

- CPU 16bit 24Mhz
- RTC (Real Time Clock) internal clock to memorise auditing data
- CSI Protocol
- GIGAR Protocol for registering cash
- Interface with EXE/MDB/BDV parallel payment systems
- Display
- Parallel interface for banknote readers/coin validators





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