

IDTECH HARDWARE: «THE INTELLIGENT IDENTIFICATION TECHNOLOGY»

More than just a profession, identification technology is a passion for us, a vocation which results in worldwide recognition in the world of business and industry. A "know-how" demonstrated daily in our [integrated solutions for Access Control UNIPASS, Time and attendance UNITIME, and Alarm Monitoring UNIGUARD.](#)

A INTEGRATED AND GLOBAL OFFER

Integratable into to our "existing" and "tailor made" software, our range of "Reading Terminals" and "Intelligent Controllers" are based on the market's most advanced standards. Our perfect mastery of the electronic equipment allows us to offer up-to-date identification solutions, evolving in time and adaptable to the equipment which may already be in use. By using market standards, [the IDtech integrated solutions remain easy to set up and to use.](#) "IDtech Hardware" together with "IDtech Software" is the motor of our identification strategy.

A HARDWARE SOLUTION ADAPTED TO YOUR REQUIREMENTS

Whether the controller is autonomous or manages several reading heads, the cabling is by no means insignificant. For that reason the IDtech solution is based on a structured communication network between the controllers and the server. [Controllers connected to the existing Ethernet network do not need independent cabling consequently reducing the total installation cost.](#)

To respond as best as possible to the market requirements the IDtech "Hardware" is based on [three different intelligent controllers](#) to which can be connected the card readers. By concentrating the information in the intelligent controllers, we are able to cut the cost of the "Hardware". The wide range of IDtech controllers allows us to give well-targeted answers to the specific needs of ever more diversified clients. Our famous reputation has been based on a tradition of quality, flexibility and originality.

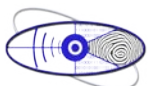
1. The independent controller

R.A.U. : Remote Access Unit
R.T.U. : Remote Time Unit

The R.A.U. is an independent controller which allows to manage an IN/OUT door or two IN doors. The R.A.U. has the entire information relating to the access control profiles at its disposal, logical IN and OUT ports necessary for the management of the access control in a totally independent way. Each R.A.U. has 4 logical IN and 2 OUT contacts. Unused contacts are free for external systems, like CCTV.

The R.T.U. is an autonomous terminal equipped with all the components necessary for the registration and management of the working time of your employees. Each R.T.U. has its own memory, processor reading head, keyboard and LCD display with background light.

The R.A.U. and R.T.U. controllers can handle up to 20.000 persons, memorize over 5.000 events and has a serial communication port (RS232) for direct connection to a PC or a modem. The R.A.U. and R.T.U. can be provided with a TCP/IP module (optional).



2. The standard multi-terminal controllers

- R.C.P. / b4 : «Remote Controller Platform» up to 4 Local units in "Bus" mode.
(RS 485)
- R.C.P. / m8 : «Remote Controller Platform» up to 8 Local units in "Mux" mode.
(Current loop 20 mAmp)
- R.C.P. / b10 : «Remote Controller Platform» up to 10 Local units in "Bus" mode.
(RS 485)

The R.C.P. controllers developed by IDtech are based on an open and evolving architecture. The R.C.P. meets all the hardware requirements of an intelligent controller having to manage independently several local time management, access and/or IN/OUT management logical units. The R.C.P.s can manage 4 to 10 local units depending on the model. Two connecting types between the R.C.P.s and the local units are also available: the RS 485 bus or the point-to-point in CL 20 mAmp.

Local units come in three different types:

- L.A.U.: The "Local Access Unit" makes it possible to manage either an IN/OUT or two IN doors. Each L.A.U. has contacts (2, extensible to 8) and logical addressable inputs (4, extensible to 8). Free contacts can be used for outside alarm systems.
- L.T.U.: The "Local Time Unit" is a time controlling terminal consisting of the components necessary to register the working hours. Each L.T.U. consists of a local electronic card, a reading head, a keyboard with 20 keys and an alphanumeric LCD screen that is light and legible even in the darkness.
- L.S.U.: The "Local Security-Box Unit" is an electronic module allowing to manage from 4 to 16 logical IN/OUT ports. Each IN/OUT is addressable separately via software. This local unit is exclusively aimed at receiving potential free contacts from outside alarm systems and at sending logical orders to the outside (CCTV, alarm system, technical management, ...).

The R.C.P. can handle up to 20.000 people, memorize over 5.000 events and has a serial communication port (RS 232) for direct connection to a PC or modem. The R.C.P. can also be provided with an optional TCP/IP module (Ethernet).

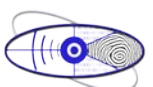
3. Multi-terminal controllers with high capacity memory

- R.C.U. / m8 : «Remote Control Unit» for 8 Local Units in "Mux" mode
(Current Loop 20 mAmps)
- R.C.U. / b10 : «Remote Control Unit» for 10 Local Units in "Bus" mode
(RS 485)
- R.C.U. / m16 : «Remote Control Unit» for 16 Local Units in "Mux" mode
(Current loop 20 mAmps)

The R.C.U. has a bigger memory capacity than the R.C.P. Just as the R.C.P., the R.C.U. has been designed and developed by IDtech on the basis of an open and evolving architecture. The R.C.U. also meets all the hardware requirements of an intelligent controller having to manage independently several local time management, access and/or IN/OUT management logical units. The R.C.U.s can manage 8 to 16 local units depending on the model. Two connecting types between the R.C.U.s and the local units are also available. The RS485 bus or the point-to-point in CL 20 mAmp.

The R.C.U. can handle up to 60.000 people, memorize over 30.000 events and has a serial communication port (RS 232) for direct connection to a PC or modem. The R.C.U. can also be provided with an optional TCP/IP module (Ethernet).

The local units are the same as those used for the R.C.P.



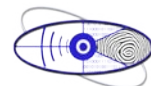
A SECURE FORMULA

These three models of "controllers" or "local intelligence" are compatible and can be combined within a same installation. They can be modulated and concentrated according to the geographical distribution of the installation and they power both the card reading terminals and the possible locks (12 volt DC500 mAmps max.). For reasons of security, the communication between the local intelligences and the higher level are under permanent control. If, moreover, a local intelligence loses its connection with the server, it has at its disposal every necessary resource to enable it to take all the required decisions immediately and locally and at all times registrations are stored in any case. As soon as communication is restored, a data updating process commences automatically. An optional emergency battery enables the system to work for between 2 to 8 hours.

From the point of view of implementation, the local intelligences can, depending on the circumstances, be connected to all types of standard networks such as Ethernet, Token Ring or else via serial interfaces, modems, ISDN, etc. Faithful to its usual logic, our Research and Development department has designed this equipment in such a way that it is easy to fit, user-friendly and of simple maintenance. In a nutshell, a well-conceived trio to meet all your needs. Including the most delicate or novel ones.

CHARACTERISTICS

- A wide range of available controllers adapted to every situation
- 100 % autonomous controllers
- Hardware presence control and Software surveillance of the entire installation
- High memory capacity (up to 60.000 people and 30.000 events)
- Remote site control with modem or network connections (according to the chosen option)
- Many options for connection and networking
- Access management, alarm monitoring and time management can be used in combination
- Supports almost any type of card or biometric reader
- Power backup (optional)
- Powers the door and the lock electronics (12 v DC, 500 m Amps max/ lock)
- Addressable IN/OUT management
- Automatic date synchronisation following a communication loss with the management PC
- Easy to fit
- Anti-sabotage option
- Combination possible with external system via contacts (fire, CCTV, alarm signal, ...)
- Secured communication protocol
- Multi-technology (one single controller can manage different read head technologies)



SPECIFICATIONS

Communication Controller to/from PC	Network (Ethernet 10 Mbits, Modems) Point-to-point (RS 232, Current Loop)
Major available peripherals for Local Units	16 keys Keypad LCD with background light Beeper 3 colors status LEDs Biometric devices for user physical identification I/O module (2 relays or 4 relays / 4 logical inputs options)
Major available identification technologies	Biometric Mifare™ Proximity HSF (High Security Function) Magstripe Proximity Smartcard Radio frequency receiver/transmitter Others on request
Major peripherals managed by I/O module	Logical inputs: <ul style="list-style-type: none"> - Magnetic sensor, - Push buttons, - Motion detection sensors, - Infrared sensors, - Break glass, - Panic buttons, - Tamper switch - Others. Relays: <ul style="list-style-type: none"> - Locks, - Electromagnet, - Motorized locks, - Barriers, - Interlocking chambers, - Automatic gates, - Turnstiles, - Sirens, - Lights, Flash, - Camera switching, - Alarm reports, - Associated relays, - Others.

