



Master Controller MC404 / MC410

Overview

As the operational link between our access control software Unipass and local controllers, the IDtech Master Controller MC404 /MC410 is the heart of your access control solution. Equipped with an enhanced memory and a powerful processor, this cutting-edge autonomous controller can operate even when the server goes offline. It comes in two versions, the MC404 and MC410, depending on the number of local controllers (LAUs) and readers to be managed.

The MC404 /MC410 has been specially designed to adapt to your constantly evolving access control needs. Updates and configuration changes are made remotely, via a secure web interface. To meet increasing security requirements, it is possible to enable AES or TLS encryption with the server.

This controller is 100 % compatible with the complete IDtech hardware range (UT 3+) and is fully integrated in the IDtech software suite.

Features

Functions

Autonomous access control management

Automatic transfer of events to the server

Large memory capacity: up to 200.000 ID media (key fobs, cards...) and 30.000 events

Scheduled automatic door opening and closing

Anti-passback

Office mode

Fire control function to allow emergency evacuation

Management of door accessories related to access control (push buttons, door sensors, electric locks...)

Integrated Ethernet network module and possibility to enable AES Encryption (Unipass 6.6.3+) or encryption using TLS certificates (Unipass 8+)

Remote connection to the controller possible via the network (firmware upgrades, updating of a connected LAU 400...)

Configurations

Available in metal housing (12 V and 230 V), for DIN rail mounting or as a board only

Controls up to 4 IDtech local controllers (LAUs) and up to 8 readers in the MC404 version, or up to 10 LAUs and 20 readers in the MC410 version

Reliability

All events and parameters are stored to ensure the access control and alarm management functions are fully carried out even when the connection to the server is lost

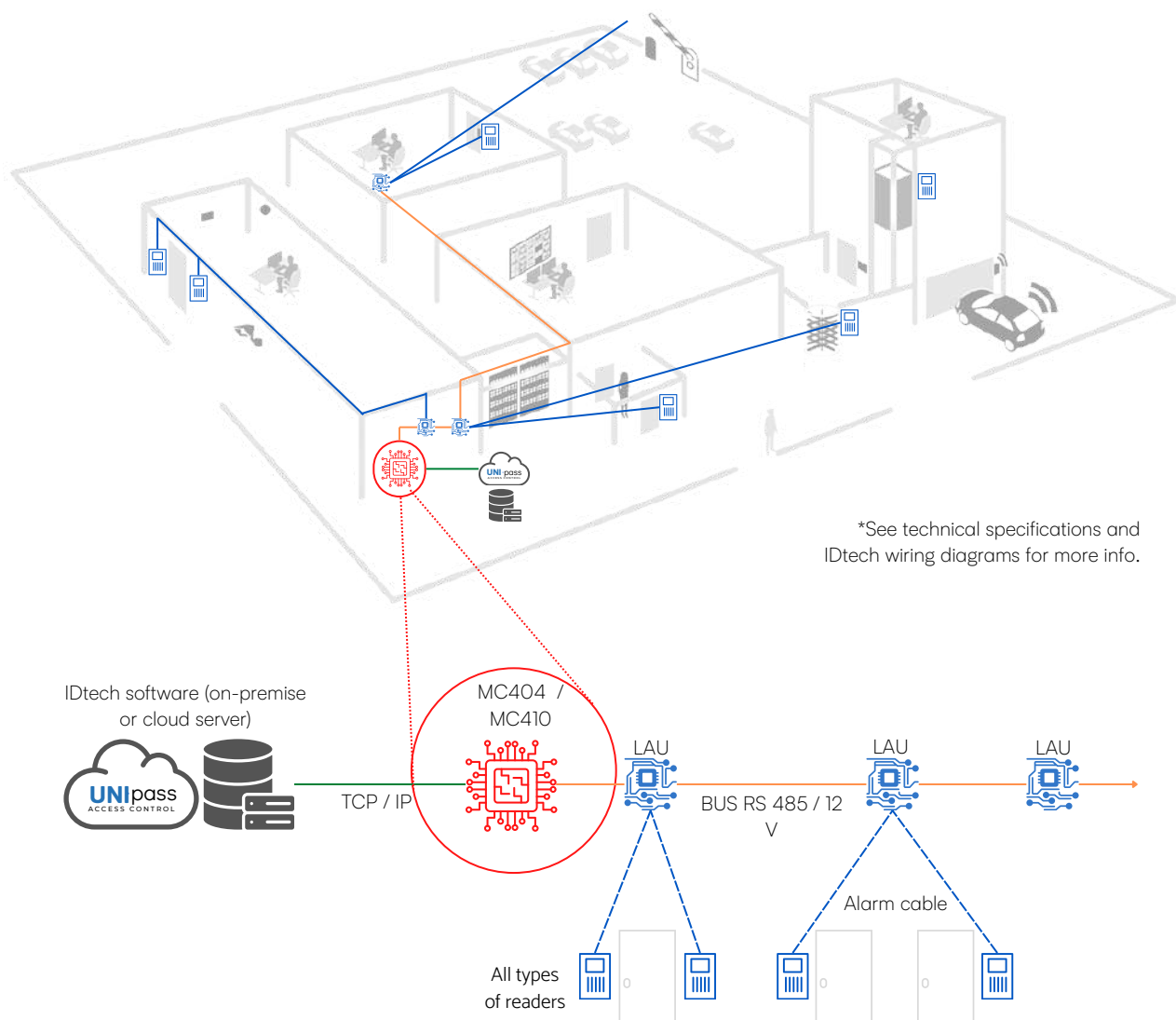
Can be equipped with a backup power supply (B.P.S.) to ensure continuous operation in the event of a temporary power failure

Automatic data synchronisation between controller and server after a communication failure

Hardware operation control and automatic restart on system failure

Network monitoring via Unipass

System Architecture



Technical Specifications (1/2)

Hardware

Version	UT 4
Dimensions (L x H x D)	- Housing: 300 x 300 x 80 mm - DIN: 163 x 120 x 60 mm - Board: 160 x 100 x 40 mm
Weight	- Housing: - MC404 - MC410 12 V: ≈2.5 kg - MC404 230 V: ≈3.1 kg - MC410 230 V: ≈3.5 kg - DIN: 228 g - Board: 128 g
Conformity	CE
Available options	Backup power supply (B.P.S.), I/O-module, Wi-Fi, modem
Related products	Local controller (LAU)

Electrical

Input voltage	12 V DC (+20 %/-10 %) 100 V to 240 V AC (50-60 Hz) for 230 V configurations
Typical power consumption	150 mA at 12 V DC (excluding peripherals)
Power failure protection	≈5 years of data retention - The intern clock keeps working for approximately one week in case of power outage and communication failure.

Communication

Server/Network connectivity	RJ45 ethernet 10 Base-T or 100 Base-TX (auto-sensing)
Communication security	AES (Unipass 6.6.3+) & TLS (Unipass 8+)
Local unit connectivity	RS 485, MC4: max 4 LAUs (up to 8 readers, 2 per LAU) / MC410: max 10 LAUs (up to 20 readers, 2 per LAU) (max 500 mA / local unit)
Reader compatibility	Readers can only be connected to the MC404 /MC410 through local controllers (LAUs).
Max. wiring distance	MC & LAU400 : DThe MC and its LAUs are ideally gathered in one place. If one or more LAUs are not, the maximum wiring distance of the RS-485 standard (1.2 km in theory) applies. LAU400 & Reader: ≈50 m in Wiegand / ≈150 m in RS 485 (OSDP, SSCP)* (*May vary depending on field realities and reader models)
Door opening time	< 1 second
I/O	4 inputs and 4 outputs In option: additional I/O module with 8 inputs and 4 outputs

Technical Specifications (2/2)

Environment

Mounting	Wall mount, DIN rail
Operating temperature	0 to 60 °C

Recommendations

Technical recommendations	• The MC should be placed in a dry and secure location, such as a technical room or cabinet. • It is strongly recommended to gather the MC and its LAUs in one place. • There is no restriction on the total number and types of controllers in the same access control system.
Wiring recommendations	• Power supply: 12 V - 2x2.5 mm² LIYY / VTMB ; 230 V - XVB 3G1.5 mm² • Bus RS485: AL 2x2x0.22 mm² twisted alarm cable • See IDtech wiring diagrams for more info.