Electronic
MTE2/MTE2 CSPN Door Controllers

Product description

The door controllers MTE2 and MTE2 CSPN (2nd Generation Multi Technology Encrypted) is used to manage access points by driving the equipment in its environment.

The **MTE2** supports the **SA3** concentrator in badge reader management, data encryption and protection. It integrates several reader communication protocols (SSCPV1 and V2, OSDP, DEBUS and Benzing).
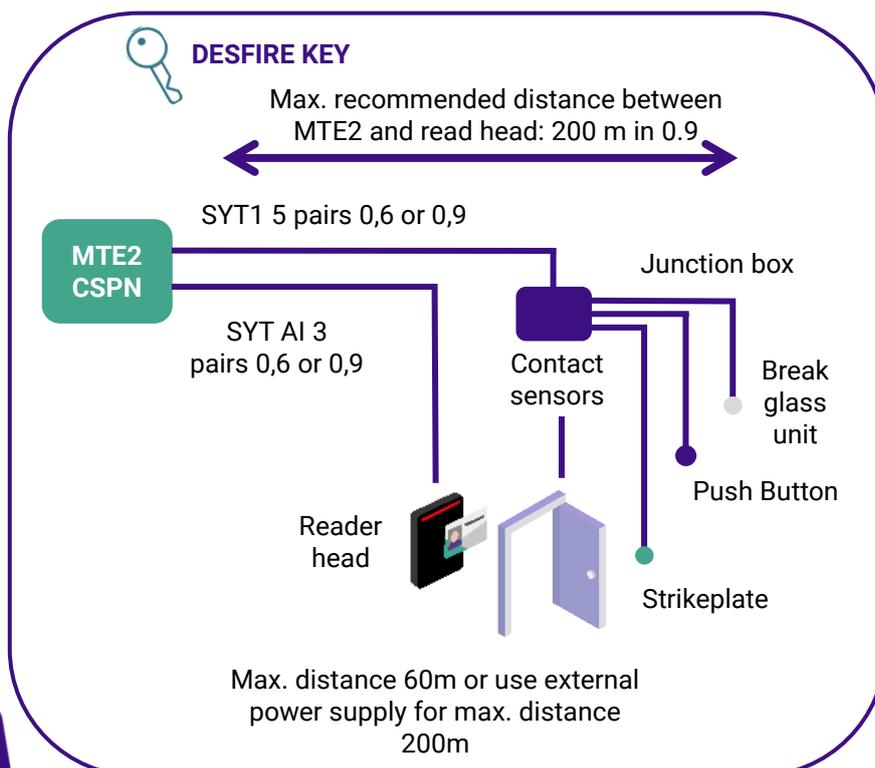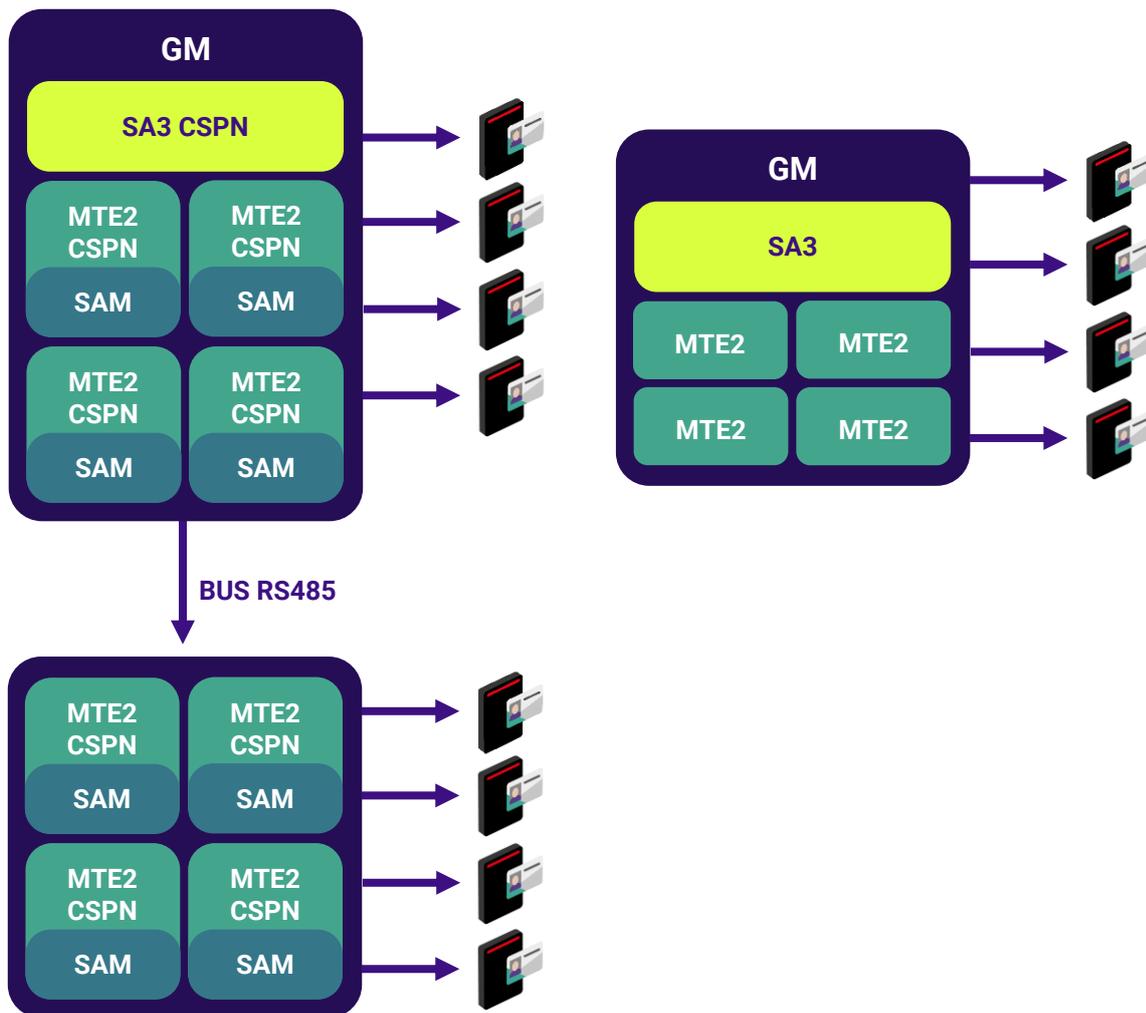
The **MTE2 CSPN** integrates CSPN firmware for enhanced encryption and data protection.

● MTE2

● MTE2 CSPN

Advantages

- **8 information inputs:** it is equipped with an optimal number of inputs and outputs to drive all types of access points (simple or double door, barrier, turnstile, etc.) and local alarm recovery.

- **Temperature alarm:** from a self-protection perspective, the MTE2 CSPN can assess the temperature thanks to a monitoring sensor and alarm notification system when the temperature goes beyond the normal operation threshold (-20°C to +60°C).

- **A transparent communication mode** between the reader and the badge, with the recording of Desfire security keys in a SAM (Secure Access Module), software or hardware.

Architecture

GM

SA3 CSPN

MTE2 CSPN	MTE2 CSPN
SAM	SAM
MTE2 CSPN	MTE2 CSPN
SAM	SAM

GM

SA3

MTE2	MTE2
MTE2	MTE2

BUS RS485

MTE2 CSPN	MTE2 CSPN
SAM	SAM
MTE2 CSPN	MTE2 CSPN
SAM	SAM

DESFIRE KEY

Max. recommended distance between
MTE2 and read head: 200 m in 0.9

SYT1 5 pairs 0,6 or 0,9

MTE2 CSPN

SYT AI 3
pairs 0,6 or 0,9

Junction box

Contact
sensors

Break
glass
unit

Push Button

Reader
head

Strikeplate

Max. distance 60m or use external
power supply for max. distance
200m

- **Integration mode:** the MTE2 CSPN door controller can be integrated in controller cabinets or deported to its own cabinet, to be closer to another door environment.

- **Communication mode:** the MTE2 CSPN ensures "transparent" communication between the reader and the badge; with 2 possible scenarios for saving DESFire security keys in SAM : SAM software, secure recording in the volatile memory in the MTE2 CSPN and SAM material, by using an expansion card containing a welded AV2 SAM or in SIM format.

- **Erasing keys:** the MTE2 CSPN contains a motion detection tool, that can be set up to meet client needs. An accelerometer is built-in for erasing keys in the case the cabinet is manipulated while powered.

Guidelines for use: if the commanded actuator has an inductive coil (e.g. relay, strikeplate, electromagnetic lock), the equipment must absolutely be equipped with a freewheeling diode. When the actuator consumes more than 300 mA, the command should be relayed. An independent power source is recommended (the same for commands in 24V or 48 V).

MTE2

References

REFERENCES		PICTURES	CONFIGURATION
02-01-0071-S	MTE2 MULTI PROTOCOL controller board for readers and access peripherals. Protocols: SSCPV1 and V2, OSDP, DEBUS and Benzing. From ALWIN 91300 version upwards.		MTE2
02-01-0017	MTE2 CSPN controller board to manage readers and access peripherals.	📁 CSPN Firmware	MTE2 CSPN
02-01-0017-MP-S	MTE2 CSPN controller board for readers and access peripherals. From ALWIN 88500 version upwards.	📁 CSPN Firmware	MTE2 CSPN
02-01-0019	Sam soda card coupler for MTE2 CSPN (02-01-0017)		SAM
01-02-0030-KIT	Din RAIL adapter kit for 2 MTE2 boards		

Specifications

SPECIFICATIONS	
Crypto Coprocessor	AES / DES / 3DES
ALCEA SA3 CSPN RS485 Protocol	Unified (2-wire) and secured
MTE 2 CSPN Addressing	Rotary coder (0~15)
Outputs (relays)	2
Inputs (Binary or 4 state)	8
Autoprotection input (Binary)	Yes
Power Supply	10 – 14 VDC
Consumption (apart from reader)	Max. 40 mA
Power supply via reader terminal	Max. 300 mA
Fuse Protection	2 (re-armable)
Dimensions mm (H x L x l)	25 x 97 x 76
Key Protection	RAM or SAM AV2 (option)
RS485 protocol Readers	1 (2-wire)
Relay Configuration	Dry or powered Contact
Relay breaking capacity	48 VDC/AC 2A
Input state LED	8 (tricolor)
Relay state LED	2
Current LED	1
Communication LED	1 (controller) + 1 (reader)
Configuration Button	1
Operating Temperature	From -20°C to +60°C
Connections	Detachable screw terminal
Mounting	4 M3 screws positioned at 78.5 x 63.5 (mm), MTE/L4F compatible
In Compliance with	BT, RoHS, DEEE, CEM, Reach