

Technical Data sheet



XMP-CMM

4/8 DOOR CONTROLLER

The high-end real-time door control units are designed for access control, time recognition, time & attendance and building automation systems. These controllers are working as communication interface of the security system XMP-BABYLON and can be used as a stand-alone system with an integrated database, if required.

Besides a number of different RFID technologies the controller communicates with barcode readers, electronic cylinders and/or door handles and special biometric systems like fingerprint and palm vein.

Regarding of data protection all telegrams is fully encrypted and will send in real-time to the server. If the server-controller communication is missing the controller uses his backup data, controls all actions and stores each event into his internal log-file for later synchronization between server and controller. All door control units are able to communicate over peer-to-peer to guarantee global security features.

In addition special features are available like connection of IP cameras, elevator control or LPR interfaces which are all controlled by the door control unit.

Because of his open attribute technology special security demands like man-traps can be integrated really quick and easy.

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1 Technical Data

1.1 General

Real-time LINUX operating system	
10/100 MBit Ethernet-Interface	
CPU with 300 MHz, 32 Bit	
64 MB RAM, 2 GB MicroSD-Memory card	
Power supply electronic board:	10 - 30 VDC
Power supply	110 - 240 V AC 50Hz
Output voltage power supply 12V	13,8 V
Output voltage power supply 24V	27,6 V
Power supply	55 W
Maximum power consumption 230V	75 W
Maximum load for periphery (12V & 24V power supply)	45 W
Maximum power consumption for periphery (12V power supply)	3,3 A
Maximum power consumption for periphery (24V power supply)	1,6 A
Maximum charging current 12V battery	0,23 A
Maximum charging current 24V battery	0,16 A
Power Over Ethernet (PoE) (for detailed information's please read the installation manual)	
3V Lithium battery (supply for real-time clock during power outage for max. 6 months)	
Blowfish encryption (XMP protocol, SecuCrypt®)	
AES256 encryption (SecuCrypt®)	
AES-GCM encryption (SecuCrypt®64)	
Offline memory up to 15,000 badges, 25,000 access profiles and 50,000 bookings	Standard
Extension Offline memory to 50,000 badges, 50,000 access profiles, 50,000 bookings with software features	Optional (Software license)

Extension Offline memory to 250,000 badges, 50,000 access profiles, 50,000 bookings with software features	Optional (Software license)
Analogue or digital inputs	-
Powered or potential free relay outputs	-
COM1 interface for card reader	RS485
COM2 interface for extension boards	RS485
USB 2.0 connector	2
Maximum connection of card reader or XMP-RIM	4 or 8 (software extension)
Maximum extension of inputs	256 (16 x XMP-KDM)
Maximum extension of outputs	192 (8 x XMP-KDA/KDR)
Connection of IP cameras	4
Integrated UPS 12V / 24V	See order numbers

1.2 Environmental conditions

Housing temperature (Operation)	0° - 50°C, 32° - 122°F
Storage	-10° - 70°C, 14° - 158°F
Relative humidity	5 - 90 %

1.3 Dimensions






B x H x T (wall mounting housing)	230 x 335 x 100 mm
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1.4 Protection class

Protection class (wall mounting housing)	IP54
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2 Controller order numbers

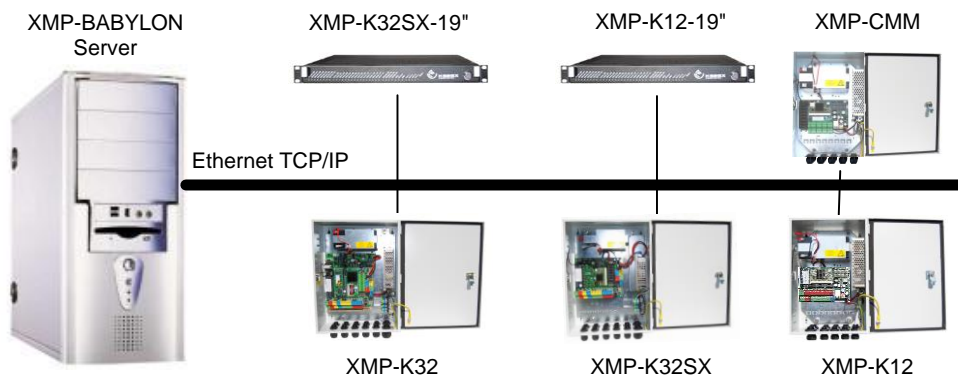
2.1 XMP-CMM – Controller for 4/8 card readers or wireless cylinders/locks

Order-No.	Description	Dimensions (mm)
 XMP-CMM-005	32-bit door controller for 4/8 card readers or wireless cylinders/locks with 12V power supply. Integrated uninterruptable power supply (7Ah UPS)	335x230x100
 XMP-CMM-000	32-bit door controller for 4/8 card readers or wireless cylinders/locks with 12V power supply. Integrated uninterruptable power supply (7Ah UPS) Inclusive software extension XMP-CMM-F9.	335x230x100
 XMP-CMM-002	32-bit door controller for 4/8 card readers or wireless cylinders/locks with 24V power supply. Integrated uninterruptable power supply (2,9Ah UPS) Inclusive software extension XMP-CMM-F9.	335x230x100
 XMP-CMM-014	Like XMP-CMM-000/002, but without power supply & battery. Powered by Power Over Ethernet-Hub (POE) Inclusive software extension XMP-CMM-F9.	200x200x90
 XMP-CMM-900	XMP-CMM board without housing, power supply & battery. Powered by POE hub or external power supply. Delivery contents: Controller board, sabotage tamper and mounting screws. Inclusive software extension XMP-CMM-F9.	160x100x30

2.2 XMP-CMM-F* - Software licenses

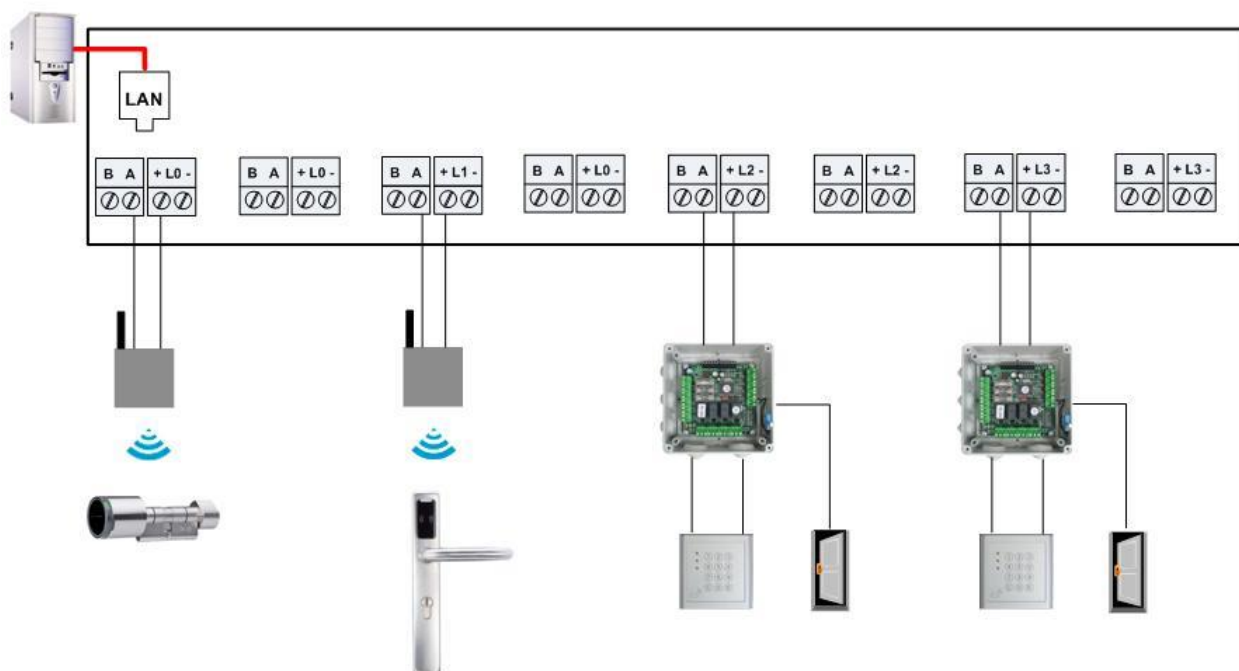
Customer protection	XMP-CMM-CP
1 = Enable 50,000 badges	XMP-CMM-F1
2 = 8 reader support	
3 = Alarms via Mail / SMS	XMP-CMM-F3
4 = License plate detection (ANPR)	XMP-CMM-F4
5 = Automatic picture comparison (FacePass-Interface)	XMP-CMM- F5
6 = Interface to IP-Cameras (CCTV)	XMP-CMM-F6
7 = Support for PalmPass Controllers	XMP-CMM-F7
8 = Enable UFR and HADP Protocols	XMP-CMM-F8
9 = Enable Aperio Protocol	XMP-CMM-F9
10 = Enable 250,000 badges → requires F1	XMP-CMM-F10
11 = Write offline data from foreign systems to badge	XMP-CMM-F11
12 = Enable Visonic interface	XMP-CMM-F12
13 = Enable Key-Diversification	XMP-CMM-F13
14 = Enable eLock Offline write function	XMP-CMM-F14
15 = Support of Barcode Scanner (only TMC3500)	
16 = Enable Modbus/IP interface	XMP-CMM-F16
17 = Reserved	
18 = Reserved	

3 Connection Overview



3.1 XMP-CMM – Sample of connection

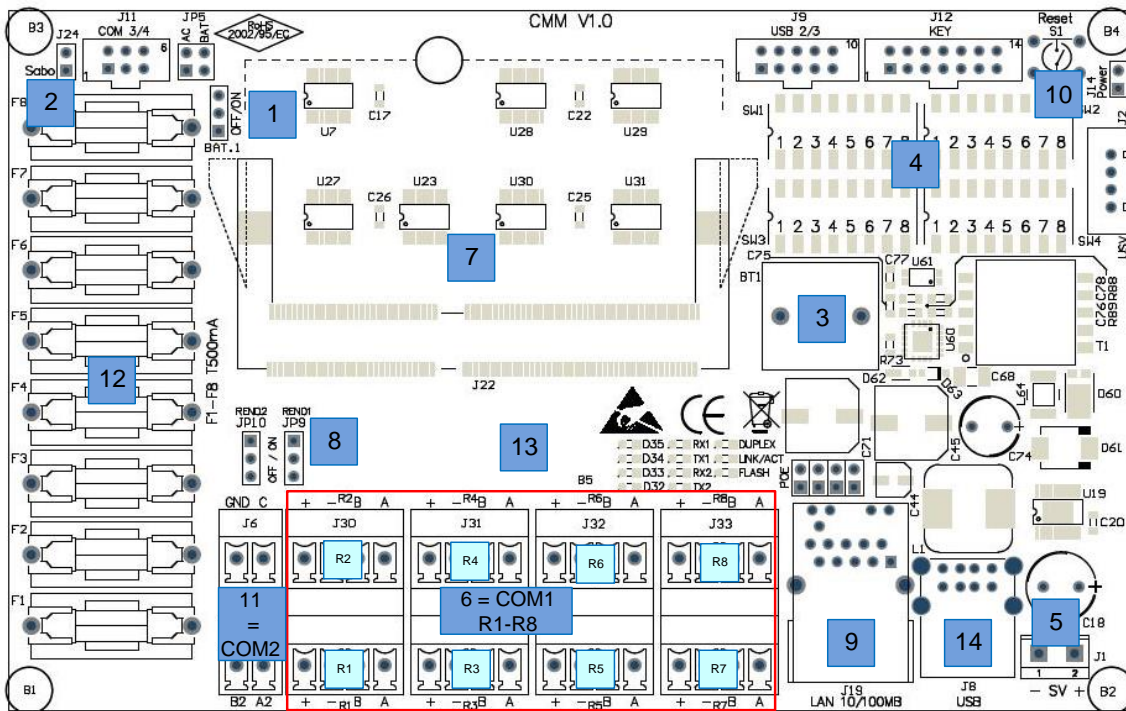
Per reader or HUB for wireless cylinder a single connector + fuse is available.



A mixed-mode of SecuCrypt® devices and third-party products is not recommended

4 Overview electronic board

4.1 XMP-CMM – Meaning of the elements



1	Tamper contact
2	Battery-Jumper BAT.1 ➔ Battery activated ON Battery deactivated OFF
3	Lithium Battery
4	DIP-Switches SW1–SW4
5	SV – Power supply XMP-CMM
6	COM1 – HUB-Clamps R1 to R8
7	Connector for CPU-Module
8	LAN 10/100MBit Interface
9	Jumper REND = End Resistor REND1 = End resistor for hubs (JP9) REND2 = End resistor for XMP-KDM/KDA (JP10)
10	Reset-Button
11	COM2 – XMP-KDA/KDM Interface
12	Fuses for HUB1 to 8 (R1-R8)
13	Status-LEDs
14	USB 2.0 Interface (reserved)

4.2 Meaning of the fuses

By factory the following fuses are build-in (5x20mm).

Door controller	Fuse value
Interface card readers	T500mA



For detailed information's please see the installation manual of the door controller.

4.3 Meaning of the LEDs



For detailed information's about the LED functions please see the installation manual of the door controller.

4.4 Meaning of the Dip-switch SW1 to SW4

SW1	1..8	Hardware address (2^0 to 2^7) Low significant byte
SW2	1..4	Hardware address (2^8 to 2^{11}) Most significant byte
	5	DHCP / DNS support
	6	Reserved
	7	Reset IP-settings
	8	Reserved
SW3	1..2	Baud rate for reader interface (COM1)
	3..4	Baud rate for XMP-KDM-016/XMP-KDA-024 (COM2)
	5	Reserved
	6	SecuCrypt64 (AES-GCM) on Ethernet interface
	7	Telegram encryption on Ethernet Interface
	8	Perform Cold-Start
SW4	1	FTP Server, Telnet Server (only for service)
	2	Start WEB configuration (for installation only)
	3-7	Reserved
	8	Protection against replay attacks (SW3-7 should be set)



For detailed information's please see the installation manual of the door controller.

5 Connection of card reader or HUB for wireless cylinder/lock

The card reader will be connected on the RS485 interface (COM1) on the door controller.

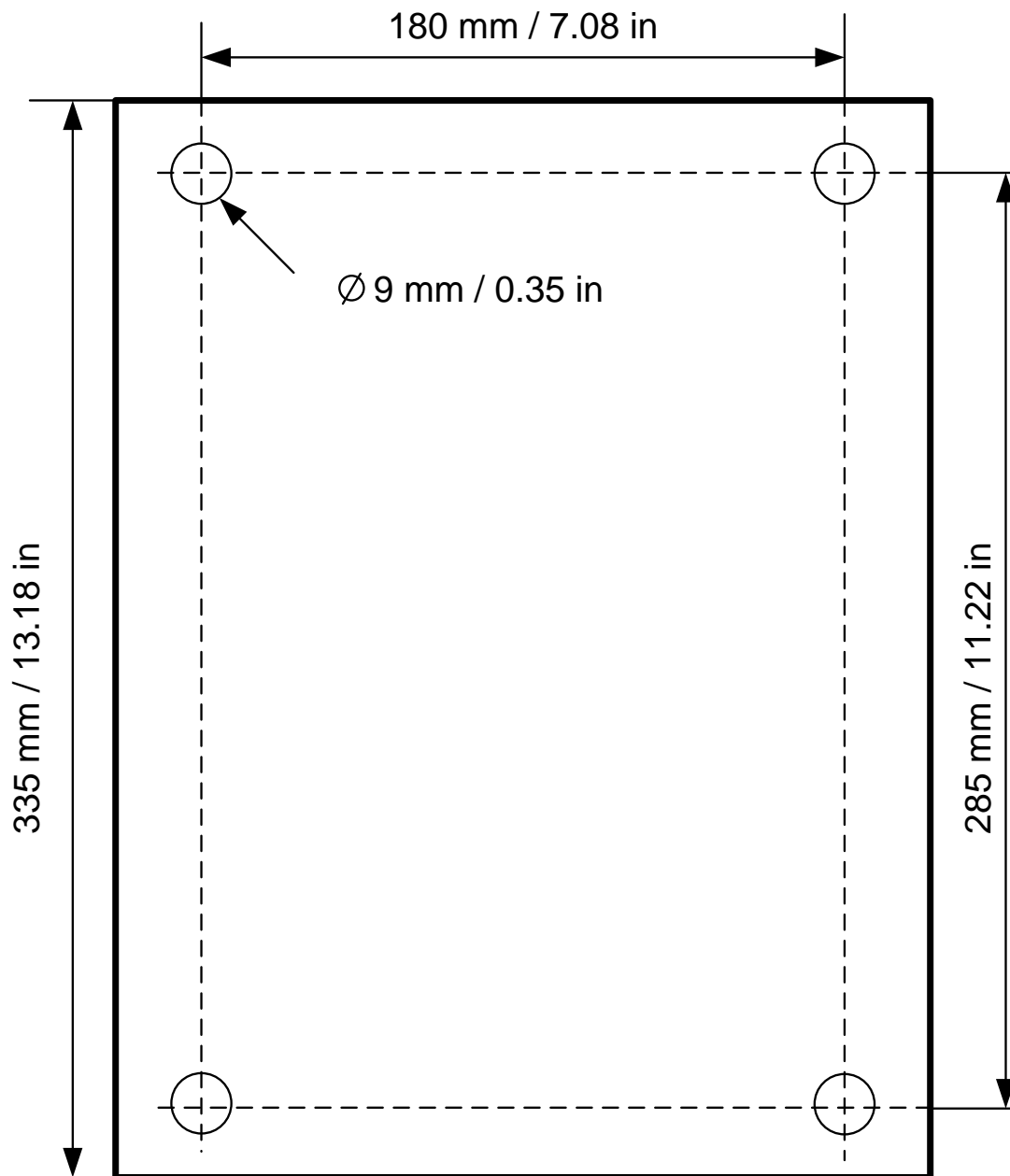
Card reader	Door controller	Description
~	+ or -	Power supply
~	+ or -	Power supply
B	B	Reader interface RS485
A	A	Reader interface RS4785



For detailed information's about cable distance, cable types, configuration, please see the installation manual of the door controllers and/or card readers.

6 Dimension housings

6.1 Controller XMP-CMM – wall mounting



7 Document History

Version	Date	Description
V3.0	04.01.2017	New design of controller data sheets.



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Revision: January 2017 - This issue replaces all previous issues. Availability, errors and specifications are subject to change without notice.

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