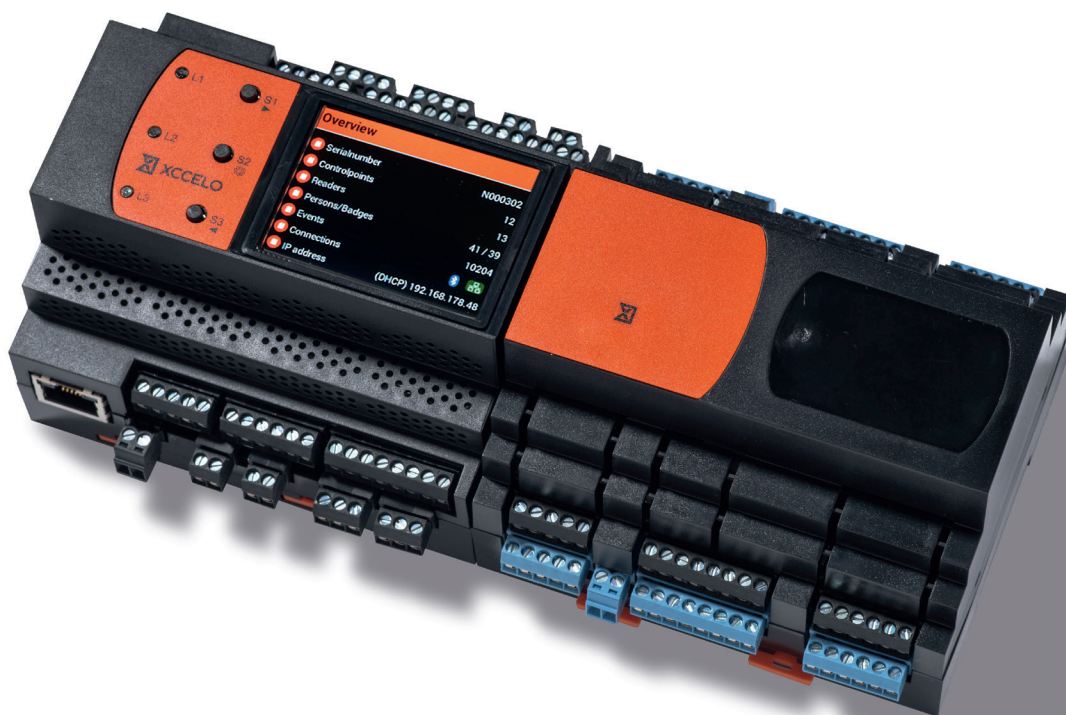


xpass individually scalable AccessController

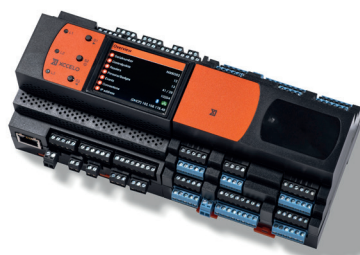


xpass



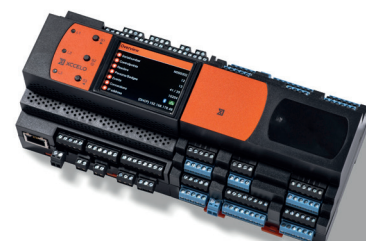
4 Doors

Main Unit: Detection Lines,
6 digital Entries, 4 Relay Exit Lines,
Controls 4 Doors



4 + 8 Doors

Main Unit + Door Unit,
for up to 12 Doors



4 + 8 + 4 Doors

xpass scales individually per
Software License, up to 16 Doors

This performant Hardware Architecture is based on a 1,5 GHz-ARM-Processor with 1 GB RAM and 8 GB Flash storage. Composed of Main Unit and Door Unit xpass is scalable for every Requirement and envalues cost efficient use. The Main Unit consists of a Base Board Level with 4 digital entries and 2 Relais Exits (e.g. for hardwarebased logic Status Surveillance of Burglar Alarm). A serial Interface enables Integration of 3rd Party Systems (RS232/RS485). The Door Unit Level covers

max. 2 isolated RS485 Channels for up to 8 Reader and 4 Doors with Relais and two digital Entrances each. The additional Door Unit Extension controls further 4 Doors in separate license. In total 16 doors are operatable with xpass. Electric supply via with Main Adaptor or PoE. Rest-Web-Service, Web-Socket and MQ Gateway enable easy Integration with any System and Platform. Smart Mobile Apps ensure intuitive Installation, Configuration and Attendance, and operate

with Wlan/Lan and BLE 4.0. The intuitive Interfacedesign gives Information on Operation, Statusreport and all Device and Environment Parameters.

xpass is the costefficient Solution for high Performance Usability, Capability- and Value by Scalability, meeting individual Requirements with the diverse optionable Solutions. xpass meets highest gov. Requirements of Data Security.

		xpass Main-Unit	xpass Door-Unit
Device	Size (L x W x H)	107 x 90 x 60 mm	108 x 90 x 60 mm
	Weight	400 g	400 g
	Protection class	IP30	IP30
Power Supply	Power Supply	12..24 V ± 10%	12..24 V ± 10%
	DC-Performanceinput (max.)	5 W	3 W
	DC-Powerinput (max.)	410mA/ @ 12 V	250mA @ 12 V
	PoE+-Provision (25 W)	36..57 V	36..57 V
	Standard: IEEE802.3at 25 W, downwardly compatible to PoE 802.3 to 12 W, yet then without Door/Reader Supply	2 Readers, 2 Dooropeners 14 W 12 V @ 1,2A limited. Overcharge is recognized by Software (Supply only for Main-Unit or Door-Unit possible)	2 Readers, 2 Dooropeners 14 W 12 V @ 1,2A limited. Overcharge is recognized by Software (Supply only for Main-Unit or Door-Unit possible)
Environment	Operation	+5..+55°C	+5..+55°C
	Storage	-20..+70°C	-20..+70°C
	Humidity	10..85 % (uncondensated)	10..85 % (uncondensated)
Entry	Digital Entries for DoorControl, 32 Entries in total	8x Input for Framecontact Doorknob-Contact, Request to Exit, Feddback-Contact, Feeler, Status Control, Intruder-Alarm, etc.	Each Level has 6x Inputs (12x / 18x / max. 24) for, Feedback-Contact, Feeler, Status-Control, Intruder-Alarm, etc.
	Vandalism-Contact, Stage- and Acceleration	Yes (optical Recognition with IR-Proximity and Light-Sensor)	
	Vandalism-Contact, Stage- and Acceleration	Yes	
	Detection Line, max. 4	4x Detection Lines/Supervised Inputs (can be defined as digital Inputs for 2 further Doors with separate Software-License)	
Exits	Relays (2 A / 30 V max.) max. 14	4x (pot.free / Voltage via Software activatable) 2x Changer / 2x Close only	Each Level 2x Relay (pot.free / Voltage via Software activatable)
	Relays (6 A / 30V max.) max. 4 S		Level 1 and Level 3: 2x Relay each (pot.free / Voltage via Software activatable)
	Detection Line Exits	2x (pot.free; 4-Pol. each for Loop Resistance)	
Communication	Ethernet 10, 100, 1000 Mb/s	Yes	
	WLAN 802.11 b/g/n	Yes	
	Bluetooth LE 4.0	Yes	
	868MHz ISM Funk (propr.)	Optional	
	RS485 Kanäle max. 20 Leser	2x RS485 Reader-Channels PHGcrypt & OSDP V2 encrypt./unencrypt. (per Channel Termination Resistor via Software On/Off), 1x RS485 for Extensions	Per Level Extensions 2x Reader-Channels PHGcrypt & OSDP (2x / 4x / 6x / max. 8x per Channel Termination Resistor via Software On/ Off)
Visualization	Display	2,4" TFT-LCD, 320 x 240 Pixel	
	LEDs	LAN, 12V Reader, Relay active Input open/closed, Relay high, Relay Exits under Power, RX/TX LEDs, Reader Voltage	Reader Rx/Tx, Reader Voltage Relay active, Relay Exits under Power, Input
Other	CPU	ARM Quad-Core 1,5 GHz	
	Storage	1 GByte RAM, 8 GByte Flash	
	Cardholders Badges	More than 250.000	
	Events	More than 1.000.000	
	Profile	More than 1.000	
	HOST-Protocol	Rest-Web-Service (JSON)	
	Safety	Encrypted Filesystem (DM-CRYPT) Trusted Platform Module (TCG) for Keymaterial Generation and Administration, Signaturecheck of OS-Updates X.509 Certificates, OAuth2, SSL, s/ftp RootOfTrust mit IMA Measurements	