

## Door control unit XMP-K32lite

### Field of applications

- Access control
- Time and attendance
- Barrier control
- Guardround control
- Traffic light control
- Camera control
- Parking garage counting
- Light control
- Biometric systems
- Elevator control
- RFID-Chip



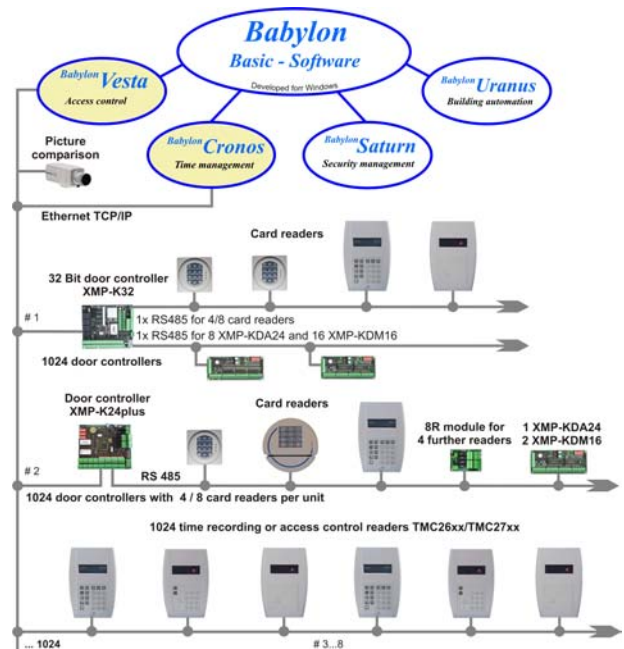
### Functions

- Up to **15.000** badges  
(**50.000** possible by extra charge)
- Up to **50.000** bookings
- Up to **25.000** access profiles, max. 35 profiles each badge, 18 of them configurable as temporary profile (1:1 structure Babylon NT)
- Several different reader protocols
- Calendar with holidays
- Supervised inputs (short, open)
- 64 Time-schedules
- 32 Routines (application programs)
- 16 graphical ViPS-programs
- Elevator control depending on profiles for up to 192 floors with XMP-KDA24
- Uninterruptable power supply (UPS) for approx. 2 to 8 hours
- Realtime LINUX operating system

### Technical data

- Supply voltage of the circuit board: 12-35 V DC
- Power consumption: approx. 9 W in idle motion, max. 100 W in dependence of external wiring
- Connection of up to 4 reader terminals (standard) with RS485-2-wire-partyline interface, can be upgraded to 8 readers.
- 8 KDA24 and 16 KDM16 connectable
- Supply voltage of the readers via XMP-K32lite (4 x 12 Volts DC, each 500 mA)
- Second RS485 2-wire or 4-wire-interface
- 16 supervised inputs with 4 states: Off, On, Fault shorted and Fault open (0..3)
- 8 binary outputs (relay 5 A max. / 250 V AC)
- **32Bit , 100Mhz 80486 compatible processor unit**
- **32 MB Ram**
- **32 MB flash memory**
- Lithium-Battery (supply of realtime clock in the case of power failure for approx. 6 months)
- Realtime clock
- Steel enclosure (WxDxH=300x120x400 mm)
- Protection type: IP55
- Environmental conditions:  
During operation: 0 to 50°C  
storage: -40 to 70°C  
5 - 95% relative humidity

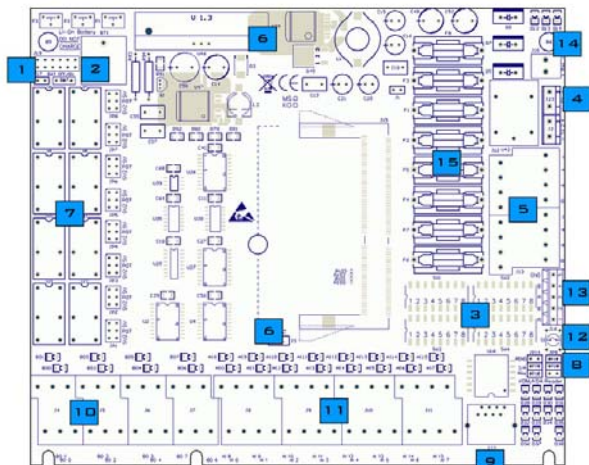
### XMP-K32lite



### Innovations compared with XMP-K24plus

- 32Bit 100MHz processor, 32MB Ram, 32MB flash-memory
- On board 10/100 Mbit ethernet interface (no MNET board needed)
- Second RS485 interface for 16 KDM16 and 8 KDA24
- 8 reader support (access-level each reader)
- Power supply 110-240 volts AC with UPS (wide input switching power supply)
- Two output voltages configurable for dooropeners (second power supply needed)
- 16 analog, supervised inputs
- offline global antipassback
- Graphic programming (ViPS)
- 14 digit ASCII-badgenumbers
- 1:1 structure of Babylon NT profiles / temporary profiles, no limitations about Online/Offline profiles
- high-quality 192bit blowfish encryption

**XMP-K32lite board – schematic representation**



1. Sabotagetamper and battery jumper
2. Lithium-Battery:  
Battery activated J14
3. Dip-Switch-Bank SW1 to SW4
4. Power supply:  
SV = Main Power  
(12-24VDC)  
SV2 = external BO-Power
5. Reader clamps
6. Connector (processing unit)
7. Relais for digital Outputs (Bo's)
8. Jumper RS485-Interface:  
JP9: Reader-Interface  
JP14: KDA24/KDM16 Interface  
REND = terminal resistor  
2/4 Wire = open 4 wire  
2/4 Wire = short 2 wire
9. Host connector clamp
10. Connector clamp BO
11. Connector clamp BI / AI
12. Reset button
13. KDA24 / KDM16 connector clamp
14. USV status LED's
15. Fuses



**Dip-Switches SW1 to SW4**

- SW1 Dip 1 to 8 = Hardware address
- SW2 Dip 1 and 2 = Hardware address
- SW2 Dip 3 to 6 = Reserved
- SW2 Dip 7 = Reset IP-address
- SW2 Dip 8 = Reserved
- SW3 Dip 1 and 2 = Baudrate for readers  
(0=4800, 1=9600, 2=19200, 3=38400 baud)
- SW3 Dip 3 to 4 = Baudrate for KDA24/KDM16  
(0=4800, 1=9600, 2=19200, 3=38400 baud)
- SW3 Dip 5, 6 = Reserved
- SW3 Dip 7 = Telegram coding on/off
- SW3 Dip 8 = Cold start
- SW4 Dip 1 = Start FTP server
- SW4 Dip 2 = Start TELNET server
- SW4 Dip 3 to 8 = Reserved

**XMP-K32lite LEDs**

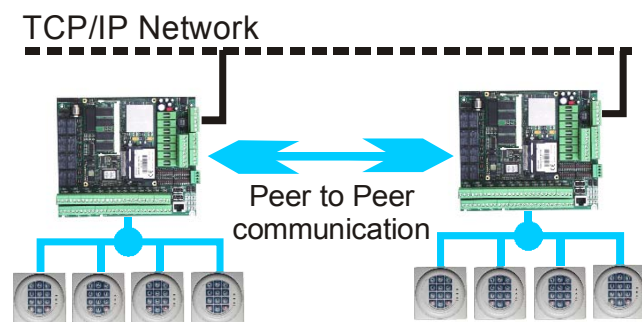
- D12 = power supply
- D13 = Battery down
- D14 = Battery empty
- D28, D29 = communication KDM/KDA
- D30, D31 = Reader interface
- D32 = Board supervision
- D35 = Reset button pushed
- D36 = Ethernet Link
- D37 = Ethernet communication
- D38 = Read / write access to CF-card

**Analog Inputs**

- Meaning of LEDs (AI0 to AI15):
- Off = Contact open
  - On = Contact closed
  - Fast flashing = Fault shorted
  - Slow flashing = Fault open

**Peer to Peer-Communication**

The **XMP-K32lite** controllers are able to communicate to each other and to **XMP-K24+** controllers directly via *Peer to Peer*.



**New Attributes**

- BD = Software release date
- M1 = Free RAM-memory in MB
- M2 = Free memory on CF-card
- SV = Immediate save all Attributes to CF-card
- SI = Time-interval for attribute-save to CF-card
- PD = Powerdown (time for power down after power fail)
- PO = Power condition 230 V  
(PO=1 Power good, PO=0 Power down)
- BS = Battery condition UPS  
(BS=1 Battery good, BS=0 Battery down)
- RE = Reset button  
(RE=1 Reset button pushed, RE=0 normal operation)

**KDA24 and KDM16**

KDM16: System-point Card 5 channel 0 to 7  
KDA24: System-point Card 5 channel16 to 23

