

# AX DOOR



**AX DOOR**  
is a flexible controller  
completely configurable  
through an intuitive  
WEB interface.

His advanced technology makes it the perfect device for high demanding access control applications where compact size and excellent performance price ratio are required. Thanks to the innovative optional POE module, **AX DOOR** can power the whole system with a single Ethernet cable including reader and electronic lock. **AX DOOR** can fully manage one flap door with his reader, 2 balanced INPUTS and 2 RELAYS.

**AX DOOR** can also control up to 8 independent flap doors using AX MAX boards connected as slaves to the RS485 port.

## FUNCTIONS

**AX DOOR** is a powerful ethernet controller configurable through a common WEB browser or uploading text files via FTP.

It can be managed in real time by an HTTP server: AX DOOR receives HTTP commands from the server and sends HTTP messages containing input variations or badge readings.

**AX DOOR** fully manages 1 Flap door.



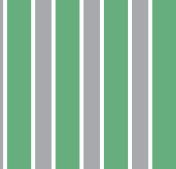
I/O AND TTL READER  
CONNECTION



Adding AX MAX on his RS485 encrypted line, up to 8 gates can be managed each with an entry reader and an exit button. Thanks to the internal 2GB microSD memory, both the number of users and the number of transactions that can be stored exceed any practical need and are therefore limited only by processing time in case of tens of thousands users.

**AXESS TMC**

a brand of Zucchetti Access S.p.A



**OPERATING MODE**

- **Online:** a server receives all access requests via HTTP and can allow or deny gate activation. In case of connection failure, transactions are locally managed and stored in the internal memory. A special http message periodically warns about the presence of records in the internal memory.
- **Offline:** according to access tables specific for each controlled gate. Time zones, authorization groups and user name can be defined.

Transactions are recorded in a text file in internal SD memory; record format is configurable to match most of the payroll software applications. Transaction text files can be periodically copied on a FTP server by AX DOOR in order to work even without a middleware.

- **Online as a component of Xatlas system**, the powerful Zucchetti AXESS security system.

**TECHNICAL SPECIFICATIONS**

|                            |   |
|----------------------------|---|
| <b>HARDWARE</b>            | ARM Cortex-M3, 32-bit, 100MHz<br>Memory: internal removable 2GB SD Flash card for transactions and configurations   |
| <b>USER INTERFACE</b>      | Multitone programmable Buzzer, 3 bicolor LEDs (State, Ethernet or RS485)  |
| <b>BADGE READERS</b>       | <ul style="list-style-type: none"> <li>• removable screw connectors with 2 led controls</li> <li>• selectable reader interface: Clock&amp;Data / TTL serial/ RS232 / Wiegand / Barcode</li> <li>• UP to 8 readers - through RS 485 AX MAX slave</li> </ul>  |
| <b>COMMUNICATION PORTS</b> | <ul style="list-style-type: none"> <li>• Ethernet 10/100, TCP/IP, HTTP (Configurable – Default Port: 80), FTP (Configurable-Default Port 21) - DHCP or static IP.</li> <li>Optional POE module 802.3af A&amp;B with connectors for external battery</li> <li>Able to power a standard electromechanical Lock.</li> <li>• 1 optocoupled RS485 port with encrypted protocol to manage up to 8 AX MAX</li> </ul> |
| <b>INPUT AND OUTPUT</b>    | <ul style="list-style-type: none"> <li>• 2 relays N.O or N.C. max 2A @ 30Vdc</li> <li>• 2 balanced inputs for full management of a flap door.</li> <li>Each input can detect up to 5 states (short, open, normal state, active, tamper)</li> <li>• up to 8 optional AX MAX, each with 1 Clk&amp;Data reader, 2 relays and 2 digital inputs</li> <li>• optical and dry contact antitamper sensor</li> </ul>    |
| <b>SUPPLY</b>              | <ul style="list-style-type: none"> <li>• from PoE (Power Over Ethernet) switch (requires optional POE module)</li> <li>• from power injector 802.3af compatible (requires optional POE module)</li> <li>• 8 ..48Vdc from screw blocks: 400mA@12Vdc max with 1 reader</li> <li>• external battery</li> <li>Optional POE module can also supply reader and electromechanical lock</li> </ul>                    |
| <b>BATTERY</b>             | <ul style="list-style-type: none"> <li>• connectors for external battery</li> <li>• use a rechargeable 12V battery with 2Ah minimum capacity.</li> <li>• when device is powered, battery is recharged at 100mA</li> <li>• backup Lihtium battery: 3V 225mAh for RTC</li> </ul>  |
| <b>SIZE</b>                | Case: ABS: 69 x 98 x 57 mm (W x H x D) Weight: 225 g  |