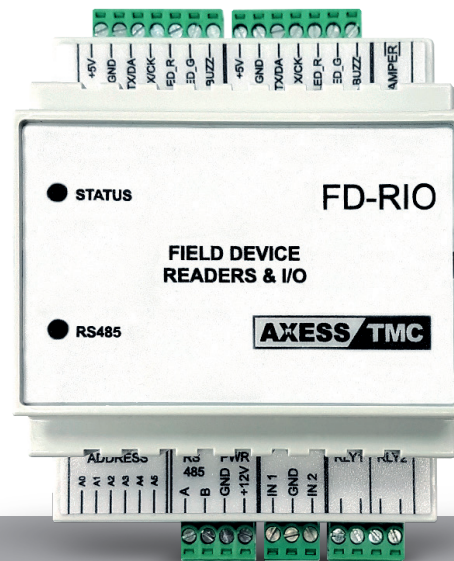


# FD-RIO

I/O module and readers for Access Control  
Can be connected to RS485 bus



*FD-RIO is a component of the Zucchetti AXESS modular security systems.*

*It provides 2 Relays, 2 Inputs, 2 ports for readers and on-board BLE module.*

*It is connected via RS485 bus with SPP protocol.*

*It can be managed directly by XAtlas or operate as a terminal or controller expansion module.*

*It enables readers and I/O to be remotely controlled where they are needed (next to the access point) and installed in a protected area.*

The AXESS TMC terminals and controllers can expand connecting optional modules to the RS485 port: I/O boards, pinpads, readers (RFID, Biometric, Bluetooth...).

- Thanks to the expansion modules, a single device (terminal or controller) can manage multiple access points.
- Additionally, expansion modules can be placed where they are needed (I/O boards in non-vandalizable areas and readers next to the access point).

## Main Features

FD-RIO offers the following benefits:

- Versatile reader connection at the two available ports (Wiegand, TTL/RS232 Serial and Ck&Data).
- Full control of a bi-directional gate with reader at both incoming and outgoing.
- Integrated BLE Bluetooth reader for using smartphone as badge or BLEtags.

## Stand-Alone operation

Not available yet.

### Table of compatibility with Zucchetti AXESS terminals

All Light version terminals, all X series terminals (except X1 and X2) and XIO, AX GATE and AX DOOR controllers can use FD-RIO to expand their I/O to control complex access points or to remotely control relays in a secure area.

	SuperGLASS7 Light	SuperTRAX 10, 7 e 4 Light	X4 GLASS X4	X3 BIO X3	AX GATE AX DOOR	XIO iDorr   iDoor+
<b>FD-RIO</b>	Max 8	Max 8	Max 8	Max 8	Max 8	Max 24
<b>ACCESS POINTS</b>	8	8	8	8	8	8

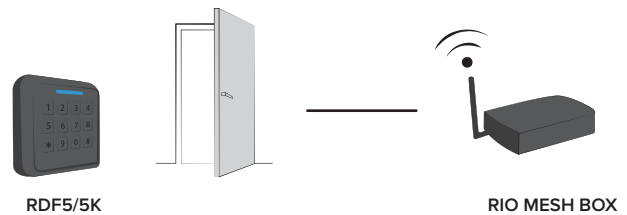
### XAtlas

FD-RIO: field controller that provides the XAtlas system with 2 relays, 2 inputs, 2 reader interfaces (Wiegand, TTL/RS232 Serial or Clock&Data). Connected to RS485 bus.

XAtlas	
<b>FD-RIO</b>	Connectable to RS485 port of FM, XIO, XPOINT

### Integrated MESH also available: RIO MESH BOX, the module with everything required to manage an access point with wireless connection to the controller.

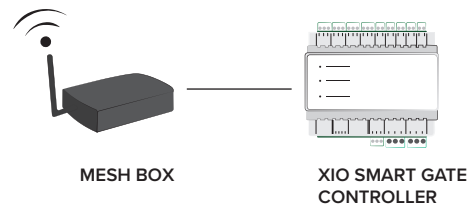
Perfect for dropped ceilings from which wires can be dropped for readers (unnecessary if using smartphone or BLEtag) and I/O. Connection with the controller takes place wirelessly via the MESH module avoiding the RS485 wiring.



### FD-RIO AND XIO: THE PERFECT DUO

- 10 inputs: 8 on controller + 2 remotely controlled
- 6 relays: 4 on controller + 2 remotely controlled
- 1 BLE Bluetooth reader
- 2 reader ports Ck&Data, Wiegand, serial (TTL or RS232)

Up to 24 devices can be connected to the XIO port, for a total of: 56 inputs and 52 relays



## TECHNICAL FEATURES

<b>READERS</b>	2 ports for reader with Led control. Accepts Clock&Data, serial (TTL or RS232) or Wiegand signals. Integrated BLE module for use with BLEtag (hands-free and localization) or with Smartphone instead of badge.
<b>COMMUNICATION PORTS</b>	RS485. SPP protocol – FD-RIO is a slave module of an RS485 SPP network and must be connected to a master (terminals, controllers or field controllers under XAtlas).
<b>INPUT/OUTPUT DEVICES</b>	On removable screw terminal block - Inputs: 2 digital for ON/OFF sensors (e.g. door status and exit button). - Relays: 2 configurable as NO or NC – 2A @30VDC.
<b>POWER SUPPLY</b>	8-35 Vdc, 50mA@12 Vdc with no readers – Max 400mA@12Vdc with 2 connected readers.
<b>INTERFACE</b>	Through RS485 bus. FD-RIO is a strictly online SPP slave.
<b>PHYSICAL CHARACTERISTICS</b>	69x105x58 mm (LxHxW) DIN rail enclosure – Operating temperature from -10 to +50°C.
<b>TECHNICAL SPECIFICATIONS</b>	RELAYS: 2 Relays, configurable as NO or NC – max 2A – Clean contacts. INPUTS: 2 ON/OFF Inputs. READERS: 2 connectors (with led control and buzzer) + Bluetooth Low Energy (BLE) integrated. READER INTERFACE: Ck&Data, Wiegand, Serial (RS232, TTL). TAMPER: 1 Input+optical. DIN RAIL ENCLOSURE: Available.