

# 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.

**AXESS TMC**

a brand of Zucchetti Axess S.p.A

**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
<b>FD-RIO</b>	Max 8	Max 8	Max 8	Max 8	Max 8	Max 16
<b>ACCESS POINTS</b>	8	8	8	8	8	8

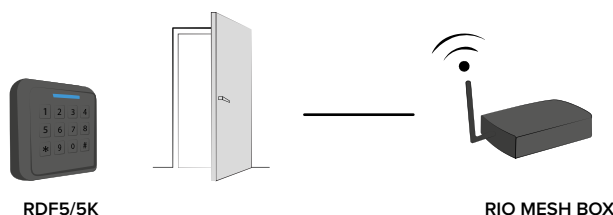
**XAtlas**

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

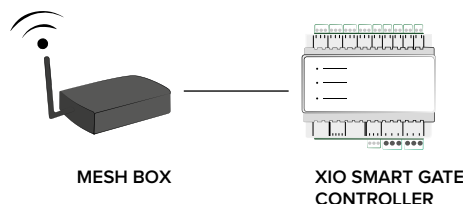
**Integrated MESH also available: RIO MESH BOX, the module with everything required to manage an access point with wireless connection to the controller.**

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
  - 2 BLE Bluetooth readers
  - 2 reader ports Ck&Data, Wiegand, serial (TTL or RS232)
- Up to 16 devices can be connected to the XIO port, for a total of: 40 inputs and 36 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 – 1A @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.