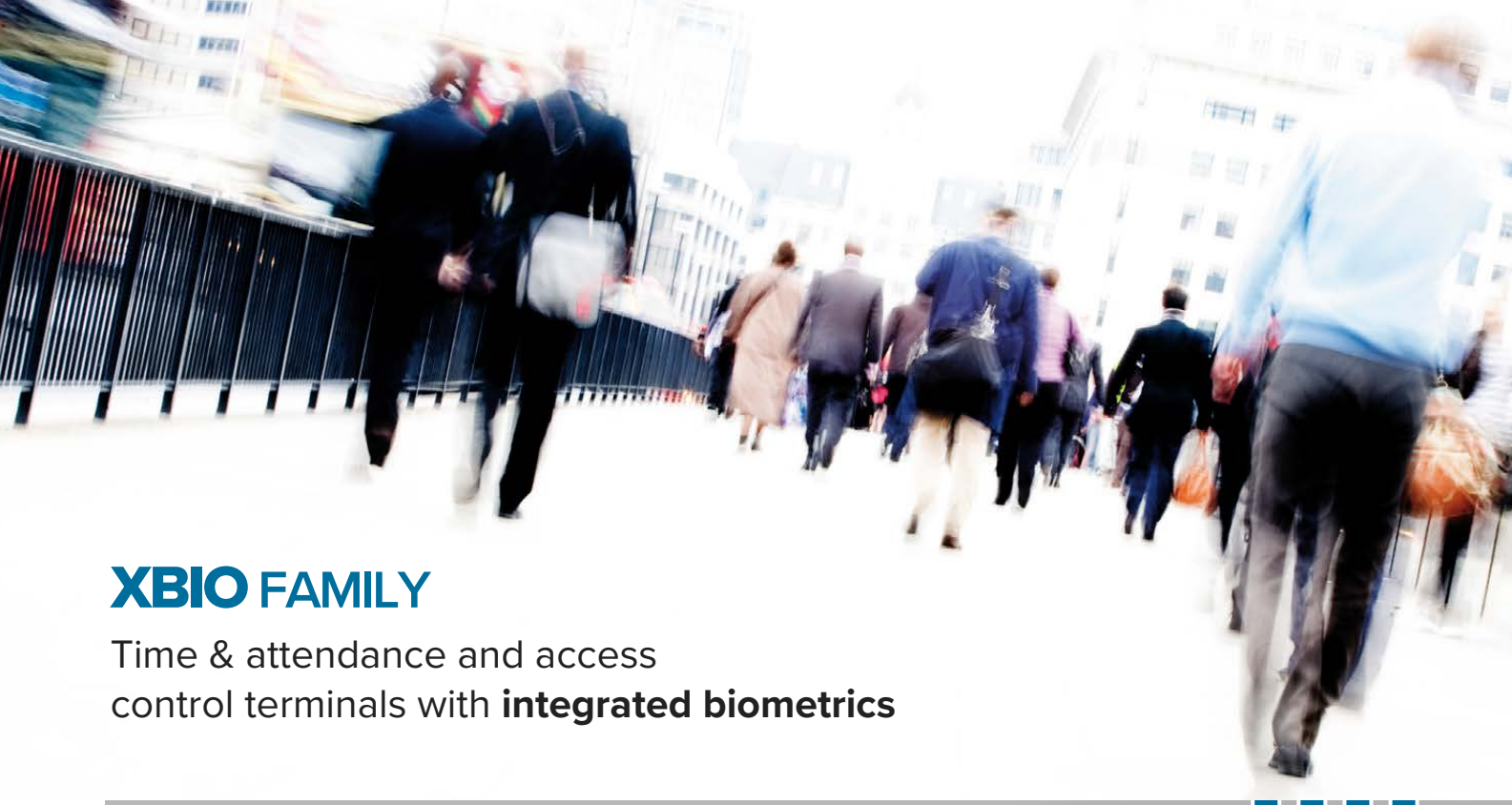

XBIO FAMILY

Time & attendance and access control terminals with **integrated biometrics**

X2BIO and X3BIO terminals feature biometric technology and ensure top security for Access Control and Time&Attendance applications.

The XBIO line terminals are multifunction devices for time & attendance and access control suited to any work environment where a precise and reliable control is desired.

strengths

Variety of identification methods in a single terminal

The terminals of the XBIO Family range enable identifying the user with:

- The use of the biometric sensor (verification or identification);
- Typing the code on the keypad (code alone or code+fingerprint);
- Proximity tags (tag alone or tag + fingerprint).

Safe storage of the fingerprint

The terminal can store up to 9.500 fingerprints (version "Plus" up to 25.000 fingerprints) and manage up to 9.900 users. The fingerprint image is not stored, but only its encrypted model. It is also possible to memorize the fingerprint on the user's card (smart card, e.g. Mifare) which allows to exceed the limits of fingerprints and also avoid the storage of biometric data subject to special security rules.

AXESS TMC
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operating mode

The terminal can manage the access point connected to it in two ways:

- **OFFLINE:** with tables stored in the internal file system (SD 4 GB);
- **ONLINE HTTP:** exchanging HTTP messages in real time with a server governing the access point, validating the badge, displaying messages, and controlling any other function of the terminal.

The terminal and user functions can be configured and managed:

- **via WEB** through a browser thanks to an intuitive interface;
- by sending text files (also via FTP). The basic parameters can also be configured directly from the supervisor menu of the terminal.

Only for installations in UE: pay attention to the line of conducts issued by the GDPR Supervisory Authority.

XBIO Family features

Integrated access point management
X2BIO and X3BIO, can fully manage all statuses (alarm, breach, forced lock, failed pass, etc.) of a swing door or turnstile.

Wide range of I/O and high security

- 1 on-board relay (to open door or activate siren at scheduled times);
- 2 on-board inputs;
- Expandable I/O via optional boards that can be installed in a protected area making relays and inputs inaccessible and thus ensuring the safe management of the controlled access point.
- X2BIO: up to 2 optional NeoMAX boards (each with 2 relays and 2 inputs) that can be connected to the RS485 port for a total of 5 relays and 6 inputs, enabling the full management of a door or turnstile.
- X3BIO: up to 8 optional boards in a combination of I/O, readers and keypads. By installing only FD-NeoMAX there can be up to 17 relays and 18 inputs, thus enabling the full management of 8 doors or 4 turnstiles

An extra 2 readers in addition to the integrated biometric one
In addition to the already integrated digital fingerprint reader, it is possible to connect 2 more Clock&Data, Serial, Wiegand readers. The tracking and decoding of each reader can be defined independently. X3Bio also allows the connection of RS485 readers (maximum 8).

No need for middleware in small systems
Thanks to the customisable record format and the ability to automatically send timestamps to the FTP server in a scheduled manner, X2BIO and X3BIO can be used directly with any software.

Ethernet 10/100 POE 802.3.af and Battery
Just one cable for data and power supply. Up to 1 hour operation with no power supply.

External USB 2.0 port
To download timestamps to a flash drive; password-protected.

Standard communication protocols
HTTP and FTP. HTTPS only on X3BIO. X2BIO and X3BIO, do not require DLL for integration.

GPRS Modem
A version with integrated GPRS modem is available for all models.

RF5 multi-technology reader
X2BIO and X3BIO, featuring the new RF5 reader, can read the following cards:

- 125 kHz EM4102 and compatible,
- 13.56 MHz Mifare: Ultralight, Classic 1K, 4K, Classic EV1 1K, DESFIRE,
- 14443A.

X2BIO and X3BIO – simultaneously reading 125 kHz and 13.56 MHz technology – ensure significant benefits in mixed-technology environments or when changing card technology.

X2BIO

X3BIO

The advantages of X3BIO

Touch Screen
With the same compact size as X2BIO, X3BIO not only has a numeric keypad, but a touchscreen interface as well, making its use more intuitive.

Colour graphic display
The wide 4.3” colour display with 480x272 pixel resolution offers detailed, well-defined reproduction of the screens, so transactions can be displayed and selectable reasons can be entered with a simple touch.

Integrated access point management
X3BIO fully manages all statuses (alarm, breach, forced lock, failed pass, etc.) of 8 swing doors or 4 turnstiles via the 8 optional boards.

Multiple access point management
X3BIO can fully manage a multi-access point control system thanks to the wide range of optional devices it can control, including in combination:

- FD-NeoMax (with 2 relays and 2 inputs and connector for 1 reader)
- FD-RFID4K, FD-RFID5K (RF reader with numeric keypad for PIN, IP65 and impact-resistant)
- FD-RFID4, FD-RFID5 (RF reader, IP65 and impact-resistant)
- AX RF (RF reader with button for bTicino box)
- XFinger (additional external biometric reader with or without badge reader)
- FD-RALL

Standard communication protocols
HTTPS to ensure secure and encrypted communication with the server.

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KEYPAD

X2BIO: 10 numeric keys + 6 membrane function keys for PIN transactions
X3BIO: membrane numeric keypad (12 keys).

SOFTWARE

- CLOKI: Data collection WEB application for access control and integrated time & attendance.
- Operation: Stand-Alone, Online with an HTTP Server, semionline - As a component of the XAtlas system.
- FTP server for receiving configuration files.
- Client FTP for automatically copying the timestamps on an FTP server in configurable text format.
- X3BIO: Integrated management of independent access points (maximum 8 swing doors or 4 turnstiles) via optional boards.

INPUT/OUTPUT DEVICES

- 1 internal relay 1A, 30V DC (resistive load), can be used for programmed activations (siren) or for unlocking an access point.
- 2 internal digital inputs.
- Expandable inputs and outputs via optional RS485 boards:
  - X2: up to 5 relays and 6 inputs 2 via optional NeoMaX.
  - X3BIO: up to 17 relays and 18 inputs via 8 optional FD-NeoMAX boards.

DISPLAY

X2BIO: Transflective, affords excellent visibility even in full daylight 128x64 with white LEDs, up to 7 lines and 24 characters.
X3BIO: 4.3" 480x272 backlit LED display – resistive touchscreen.

COMMUNICATION PORTS

- Communication: TCP/IP, HTTP and FTP
- 1 Ethernet 10/100 POE A&B compatible with standard HTTP and FTP protocols (X3BIO also HTTPS).
- External USB host 2.0 full-speed, password-protected for downloading timestamps.
- 4 GB MicroSD card (over 10 million transactions and over 100,000 users). In case of terminal failure, simply insert the MicroSD in a new terminal to restart with the same data and configuration.
- 1 RS232 serial at EIA levels.
- X2BIO: 1 RS485 with NET92 protocol to expand the number of I/O connecting up to 2 NeoMAX.
- X3BIO: 1 RS485 with NET92 or SPP protocols to expand the number of I/O readers connecting up to 8 optional devices, choose from RF readers, and I/O boards.

PHYSICAL CHARACTERISTICS

- Protection: IP55.
- Case material: ABS V0.
- Operating temperature: -10 +50 (battery should not exceed 50°).

INTEGRATED READERS

Internal RFID reader in all technologies supported by Zucchetti AXESS:
- 125 kHz EM4102 compatible (dual-head reader).
- 125 kHz HID.
- HID iClass.
- DESFIRE (NO SAM - secure access module).
- 13.56 MHz Multi-standard Read/Write ISO14443/15693/Mifare.
- Legic Advant read-only.

BLE Bluetooth Low Energy.

Version with multi-technology reader:
- 125 kHz EM4102 and compatible.
- 13.56 MHz Mifare: Ultralight, Classic 1K, 4K, Classic EV1 1K, DESFIRE.
- 14443A.

POWER SUPPLY

- PoE 802.3.af or with power supply from 9 to 48 Volt- 5 7 Watt.

BATTERY

- 1 hour of continuous operation with option of automatic power-off management.

MEMORY

- Over 20 million transactions and over 100,000 users.

AUDIO

- Multi-tone buzzer.

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