

BIOSMART WTC2 TERMINAL



In the WTC2 terminals, we use optical fingerprint sensors with large scanning areas and high dpi, providing accurate and fast identification. The durability of the optical sensors has been confirmed upon installation and active daily use.

The terminal, WTC2, is an IP-based device for time attendance and/or access control solutions. It operates as part of the BioSmart system, together with the BioSmart Studio software, keeping a copy of the biometric templates and providing match on device.

The terminal can operate in small systems with just a couple of devices, and in large distributed systems with remote administration and updates. The keypad on the terminal has software-defined function buttons to allow in/out, lunch break, and sick leave registrations.

Highlights

- Match on device for fast and reliable identification
- Match on smart cards (Mifare/Desfire, HID iClass, Legic)
- Server identification for large databases
- Customization and OEM solutions
- 3 year warranty

Features

- Fingerprint optical sensor
- Identification matches can be performed in less than 970 ms
- TFT Display 3.5"
- Touch keypad with software-defined buttons for extended functionality
- TCP/IP, RS485, USB, and Wiegand communications
- Power over Ethernet
- Support of ZFlex Relay Module
- Supports custom wallpapers

Technical Specifications

Authentication types	Fingerprints or card Card + Fingerprints Fingerprints on smart card Pin + Fingerprints
Users	5 000 (card only) 4500 (fingerprint only, card + fingerprint, PIN + fingerprint)
Fingerprint templates	4 500
Event log capacity	100 000
Match time (1:1000) in local mode, by fingerprints	< 970 ms
Verification time (1:1)	< 600 ms
FAR (False Acceptance Rate)	10^{-4} - 10^{-8}
FRR (False Rejection Rate), at FAR = 10^{-5} **	0.01
Sensor technology	Optical
Image size	272x320
Resolution	500 dpi
Smart card reader	MIFARE Classic®/MIFARE® DESFire® EV1 (13.56 MHz) HID Prox/iClass/iClass SE (125 kHz / 13.56 MHz) Legic Advant (13.56 MHz) EM Marin (125 kHz)
Screen type	TFT, 3,5", 320 x 240
Keypad	Touch, 12 buttons, programmatic function buttons
Communication	Ethernet (100 BASE-T)
ZFlex Relay Module support	Yes
Ethernet interface	Yes, IEEE 802.3af
WIEGAND I/O	Output, 26/32 bit
Discrete inputs	1
Onboard lock control relay	12V, 1A
Tamper detection	1 sensor – on case opening
Power requirements	12V±15%, 0.4 A
PoE (Power over Ethernet)	None
Operating temperature	0...+50°C (32 ... 122 °F)
Housing type	Plastic, wall mount
Dimensions (HxWxD)	142 x 123 x 41 mm
Weight	320 g (11 oz)
Certification	CE, RoHS2
Warranty	3 years

* Depends on the number of enrolled palms. Affects recognition speed.

** Calculated value: depends on quality of users' biometric data.



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