

Zophon-S1000

Multi-Biometrics Access Control Modules for
Entrance Control Solutions

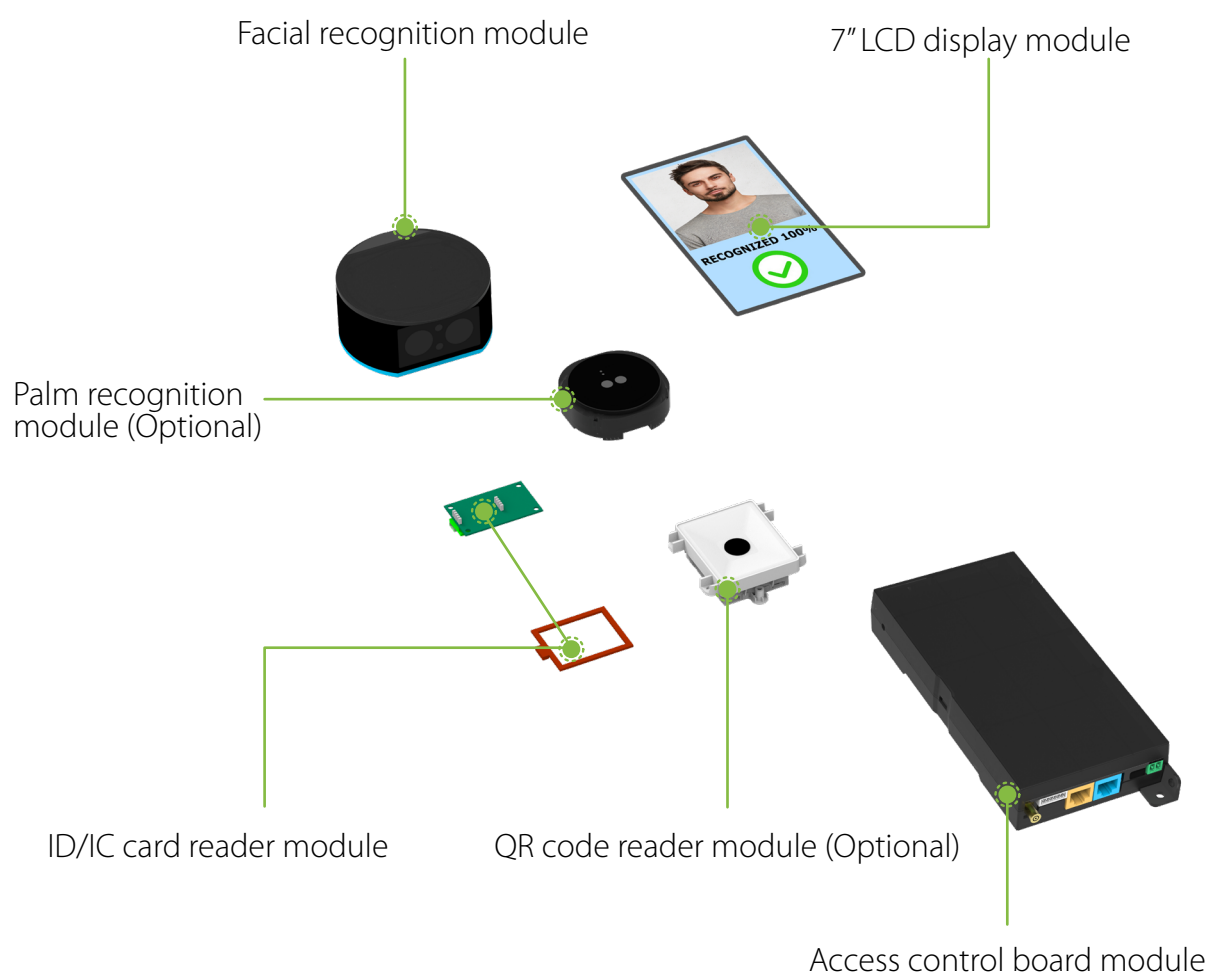


 **ZKBio** CVSecurity



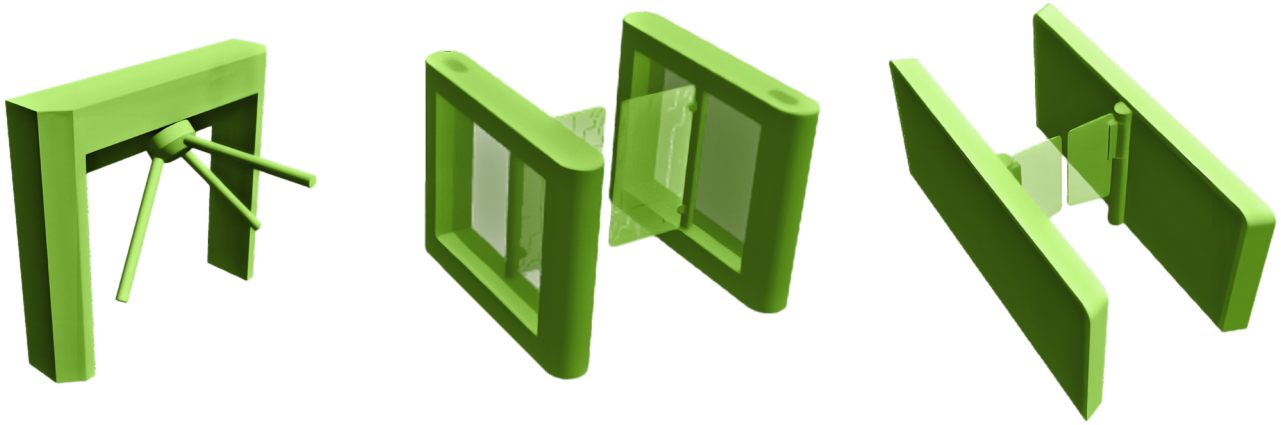
Introduction

ZKTeco's multi-biometrics access control modules are a smart and professional access control system for pedestrian passage products. It is integrated with turnstiles. The device consists of several modules, such as the RFID / Face / Palm / QR code recognition module, the LCD display, and the main/sub access control board. Based on the Android system design, it supports over-the-air upgrades for the device's firmware. Moreover, it allows for secondary development and integration through the provided SDK/API.



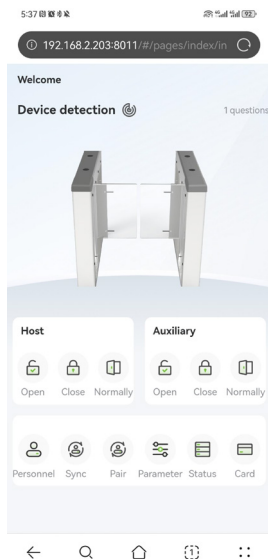
This module is highly flexible, enabling diverse configurations tailored to real-world scenarios. It meets customers' diverse demands, whether they need different authentication methods or to add the display module.

Currently, the multi-biometrics access control module supports integration into ZKTeco's mainstream products and allows it to work with third-party devices. Customers have the option to acquire individual modules for self-installation or choose customized accessory kits.



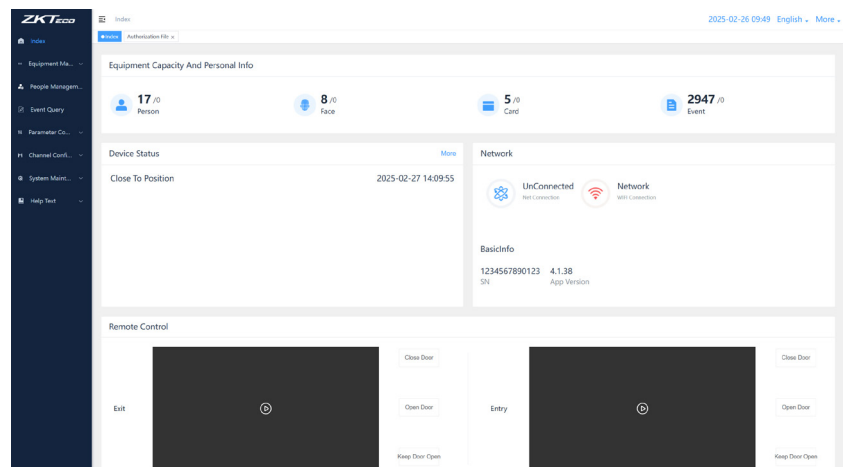
To connect the turnstile control board, whether with ZKTeco's own products or during integration with third-party devices, it can be connected to the turnstile control board via the data communication protocol (RS485). This enables the viewing of device status and remote control operations.

It supports communication with external devices through Near-Field Communication (NFC), Wireless Fidelity (Wi-Fi), or Transmission Control Protocol/Internet Protocol (TCP/IP). You can easily view and change device settings by simply connecting the device to your mobile phone via NFC or Wi-Fi, or by connecting the device to a computer using an Ethernet cable.



Device operating surface

- Entry/Exit door control
- Personnel enroll
- Sync personnel data
- Device parameter setting
- Status review



Advanced settings of turnstile via web

- Access permissions for turnstiles can be configured based on time settings.
- Set the passage mode with one click and batch copy it to other devices.
- Customize the face recognition area size via the web interface, with three adjustable levels to enhance the security.

Key Features

Comprehensive Multi-Authentication Options.

Supports Face and RFID recognition (standard); Palm recognition and QR code (optional) for enhanced flexibility and security.

Advanced Biometric Authentication.

Offers superior biometric performance for both palm and facial recognition, ensuring accurate and facial recognition access control.

Wide-Angle Camera for Enhanced Recognition.

Equipped with a wide-angle camera for broader and farther facial recognition, supporting distances of 0.5m to 2m and a field of view as wide as 118.9°.

Minimalist Design.

Features a sleek and unobtrusive design that seamlessly integrates with existing gate aesthetics without compromising functionality.

Seamless Integration.

Fully compatible with ZKTeco gates and third-party entrance control systems for flexible deployment.

Wi-Fi Enabled for easy configuration.

Provides Wi-Fi connectivity, allowing system configurations through a user-friendly HTML5 web interface.

Over-the-Air Firmware Updates

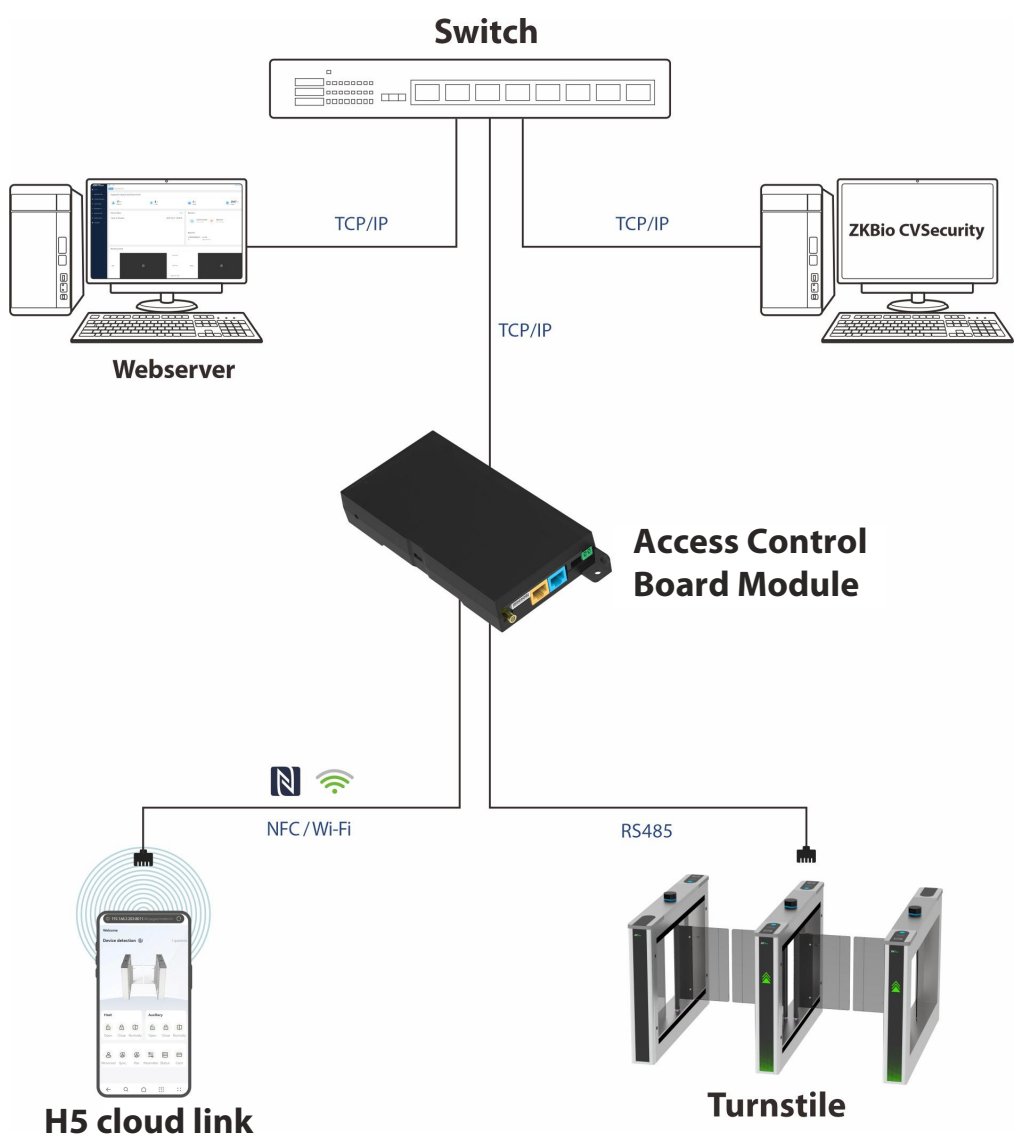
The firmware can be updated wirelessly through Over-the-Air technology, ensuring that the device always operates with the latest software version.

Specifications

Model	Zophon-S1000
Display	7-inch LCD Screen (1024*600 Pixels) (Optional)
Camera	2MP Binocular Camera (field of view as wide as 118.9°)
Operation System	Android14
Hardware	CPU: Quad-core A55, Up to 2.0GHz
Authentication Method	Face / RFID(standard), Palm / QR Code (optional)
Face Template Capacity	100,000 (1:N)

Palm Template Capacity	50,000 (1:N)
Card/QR Capacity	100,000 (1:N)
Transaction Capacity	1,000,000
Biometric Authentication Speed	less than 0.5 sec (Facial Recognition) less than 0.5 sec (Palm Recognition)
Touchless Biometric Authentication Distance	50cm to 200cm (Facial Recognition) 5cm to 15cm (Palm Recognition)
False Acceptance Rate (FAR)%	FAR ≤ 0.01% (Visible Light Facial Recognition) FAR ≤ 0.001% (Palm)
False Rejection Rate (FRR)%	FRR ≤ 0.02% (Visible Light Facial Recognition) FRR ≤ 0.17% (Palm)
Biometric Algorithm	ZKFace V3.9 & PalmElite3.3.3
Card Type	ID Card@125 kHz (Standard) IC Card@13.56 MHz (Optional)
QR code	1D: Code 128, EAN-13, EAN-8, Code 39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ITF-6, ITF-14, ISBN, Code 93, UCC/EAN-128, GS1 Databar, Matrix 2 of 5, Code11, Industrial 2 of 5, Standard 2 of 5, MSI etc. 2D QR code (dynamic or static): QR / AZTEC/ PDF417/ DATAMATRIX
Communication	TCP/IP*1 NFC (ISO/IEC 14443A) Wi-Fi (IEEE 802.11 a/b/g/n/ac) @2.4GHz ; 5GHz Wiegand Input *1 RS485: ZKTeco RS485*1 Aux Inputs *1, Electric Lock*1, Door Sensor*1, Exit Button*1, Alarm *1
Standard Functions	Block list, 14-digit User ID, Access Levels, Groups, Holidays, Anti-passback, Record Query, Schedule Bell, Multiple Verification Methods
Optional Functions	Palm recognition module, QR Code reader module, LCD display module
Power Supply	24V DC 3A
Operating Temperature	-10°C to 55°C (Indoor application)
Operating Humidity	10% to 90% RH (Non-condensing)
Dimensions	Face recognition module (Φ92mm*42mm) Palm recognition module (62*62*18mm) QR reader module (66mm*65.13*22mm) RFID reader module (37.75mm*49.80*1.6mm) LCD display module (95.7*162.5*3mm) Access control module (94.34*196* 29mm)
Net Weight	Face recognition module: 30g (single side) 40g (double side) Palm recognition module: 80g QR reader module: 20g RFID reader module: 10g LCD display module: 80g Access control module: 250g
Supported Software	ZKBio CVSecurity
Installation	Fasten with screws
Housing Material	Face recognition module: ABS plastic Palm recognition module: aluminum alloy LCD display module: N/A RFID reader: N/A RFID reader module: ABS plastic
Ingress Protection Rating	N/A
Certifications	CE, FCC, ISO9001, ISO14001, ISO20000

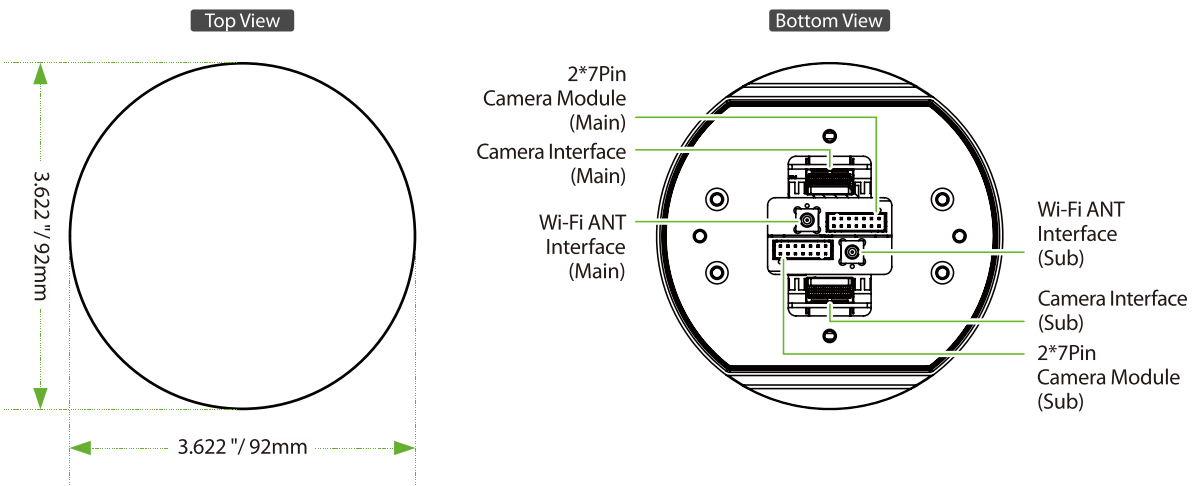
Configuration

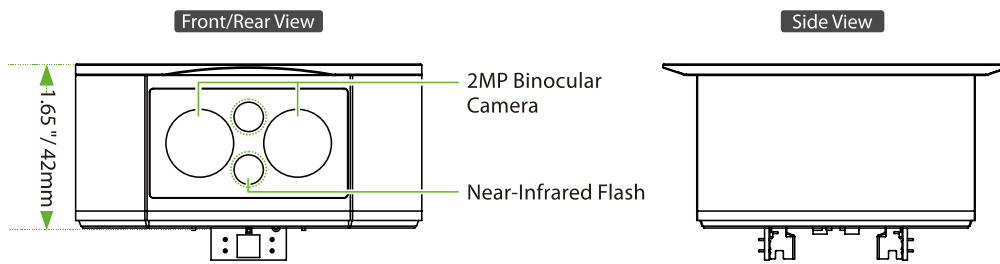


Dimensions (inch/mm)

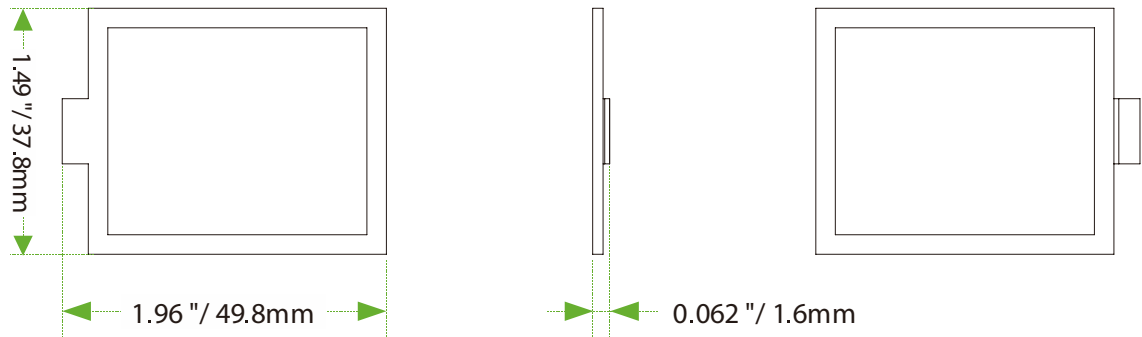
Facial Recognition Module

Unit: inch/mm

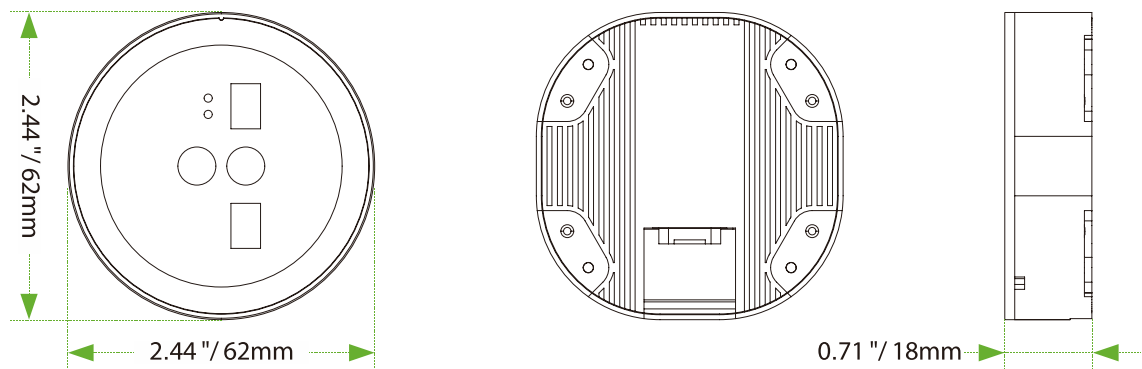




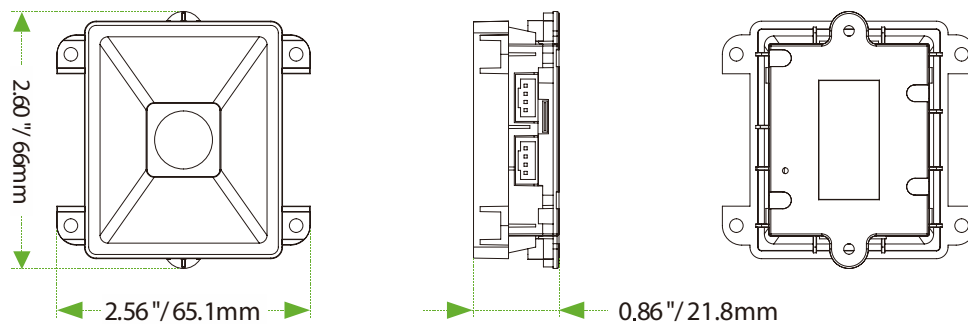
ID/IC Card Reader Module



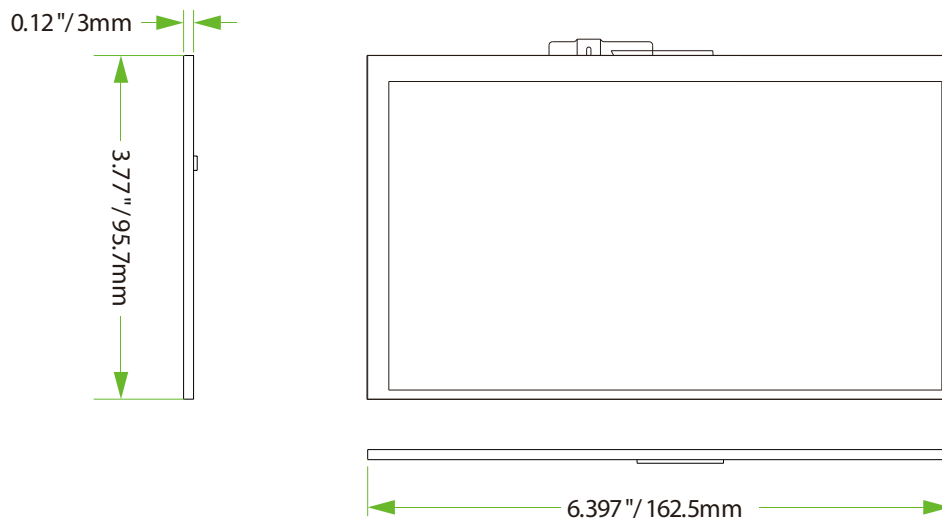
Palm Recognition Module



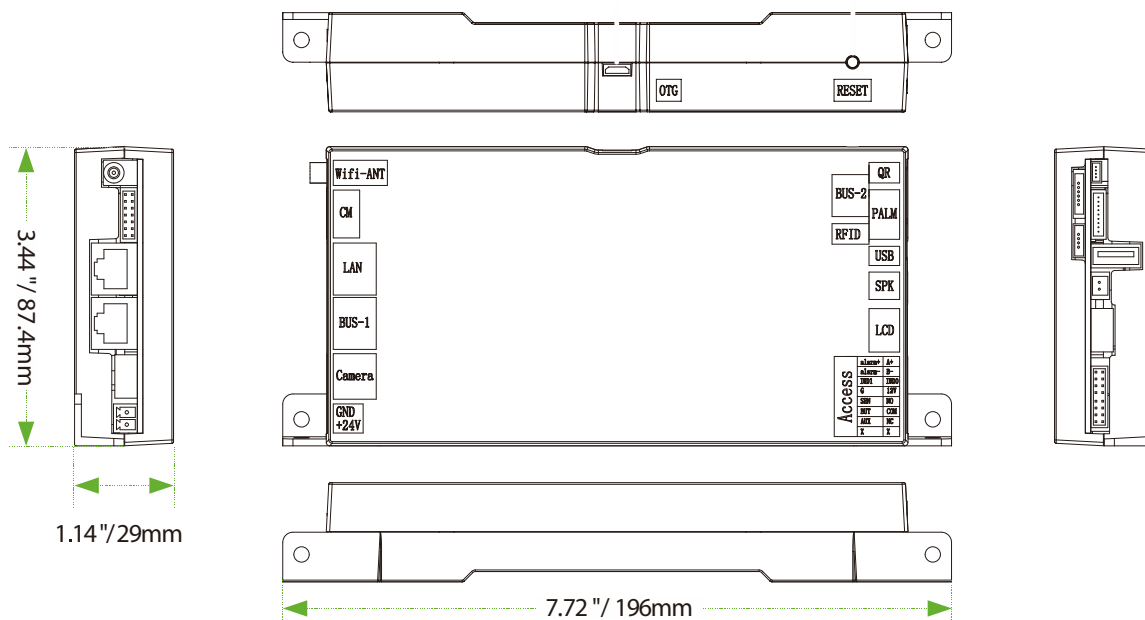
QR Code Reader Module



LCD Display Module



Access Control Board Module



V2.6 07/31/2025