

# IXM TITAN



**Fast &  
Accurate**

**Surprisingly  
Rugged**

**A Biometric  
Powerhouse**

**Bold &  
Beautiful**

**Multiple  
Applications**

**A Future  
Proof Product**

**Quality that  
lasts forever**

**Innovation  
Meets Art**



The Most Advanced Biometric Product Ever Engineered

## OVERVIEW

Designed to thrive in the harsh, non-clean environments of industries and critical infrastructure sectors, TITAN redefines biometric access control, workforce management, and visitor management with its state of the art design and rugged construction.

TITAN boasts features tailored for the industrial market with an IK10 impact rating and IP67 rating for water and dust ingress protection, a 5.0" IPS Touchscreen LCD with Corning Gorilla Glass protection, and a solid aluminum exterior.

## BIOMETRICS

TITAN is a sophisticated multimodal product, capable of authenticating two biometric modalities. For face recognition, TITAN has the largest capacity in the industry of 100K faces in 1:N mode and can verify over 20 individuals per minute using its advanced 21 MP Sony camera. Its proprietary face recognition algorithm excels in detecting spoofed faces and functions flawlessly under all lighting conditions, from complete darkness to bright sunlight.

Beyond face recognition, TITAN also supports fingerprint recognition with 2 different fingerprint sensor options - an FBI certified optical sensor more suited for indoor environments, and a multispectral sensor ideal for industrial use where the fingerprints tend to be worn out. TITAN is the only product in the industry that also offers a finger vein sensor as an alternative to the fingerprint sensors. Preferred in regions with stricter privacy laws, finger vein recognition is ideal for applications where latent prints might be a concern.

As far as privacy and security of the biometric templates goes, TITAN offers multiple secure options for data and template storage to comply with regional privacy regulations such as storing on the device, storing on the server, or storing the templates on individual cards.

## TECHNOLOGY

The versatility of TITAN enables it to perform up to 4-factor authentication (MFA) by combining biometrics with traditional credentials (such as RFID cards or PINs) and digital credentials (like mobile IDs or QR codes). With an array of modern features including a high performance Octa-core processor from Qualcomm; PoE+ for ease of installation and connectivity; large storage capacity; Wi-Fi, cellular connectivity, Bluetooth, and NFC for communication; OSDP2 connectivity for panel integration; and a wide operating temperature range, TITAN is the only comprehensive modern biometric solution catering to multiple applications like access control, workforce management and visitor management.

# SPECIFICATIONS

Face Recognition Capacity	100K Templates (1:N), 500K Templates (1:1)
Liveness Detection	Available
Lighting Conditions	0 to 75000 lux
Throughput	>20 people per minute
Fingerprint Sensor options	FBI & STQC Certified SecuGen Optical Sensor HID Lumidigm Venus Multispectral Sensor
Fingerprint Capacity	100K Templates (1:N), 1M Templates (1:1)
Finger Vein Sensor	Hitachi Finger Vein Sensor
Finger Vein Capacity	4K Templates (1:N), 1M Templates (1:1)
Authentication Speed	<1 second
RFID Cards	Selected Models
Card Capacity	500K Users (1:1) up to 10 Cards per User
Transaction Log Capacity	1 Million
Image Log Capacity	10K Images
Template Storage (Privacy)	Configurable – On Device, Server or Card
Processor	2.2 GHz Quad core Qualcomm Snapdragon 820
RAM	4 GB
Flash Memory	64 GB
Operating System	Android & Secure Linux
Communication Options	TCP/IP, RS - 232, USB Aux, RS-485 (OSDP v2), Wi-Fi
Ethernet	1000BASE-T
Wi-Fi	802.11ac 2X2MU-MIMO 2.4GHz/5GHz
Bluetooth	4.2LE
NFC	Available
Cellular Connectivity	4G/LTE <i>(Optional)</i>
USB	USB 2.0 (OTG), USB 2.0
Camera	21 MP camera with Autofocus and LED Flash
Flash	High intensity LED
Wiegand	Customizable up to 512 bits
# of SPOs / SPIs	3 & 3
Panel Feedback	Available (2 Physical Lines)
Door Access Controller	Relay rating 2A@24VDC (1 Output, 2 Inputs, 1 Relay)
Door Strike Supply	12 VDC@500 mA, 24 VDC@250mA
Anti Shock Vandal Protection	Standard
LCD	5.0" IPS Capacitive Touchscreen
Screen Protection	Corning Gorilla Glass
Proximity Sensor	TOF Sensor
LEDs	RGB (Power & Status)
Audio	Stereo High-Fidelity Speaker
Intercom	VoIP
Battery Back-up (Sold separately)	Li-ion 5000mAh
Mobile Credentials	Digital Card, Static and Dynamic QR Code via IXM Mobile
Attestation Questions	Available (via LCD)
PoE+	IEEE 802.3at
Power Supply	PoE+, 12 VDC@3A, 24 VDC@1.5A
Environmental Rating	IP67, IK10 <i>(Finger Vein model is IP65)</i>
Operating Temperature	-25 to 75 °C (-13°F to 167 °F)
Relative Humidity	0-95% non-condensing
Regulatory Approvals & Certificates	FCC, CE, RoHS, UKCA, BIS
Exterior Enclosure	Extruded Aluminium
Dimensions	27 x 9 x 9 cm (L x W x D)

# DIMENSIONS



# MODEL DETAILS

	FACE	FINGER VEIN	FINGERPRINT (Multispectral)	FINGERPRINT (Optical)	IXM RFID <sup>†</sup>	ICLASS SE <sup>‡</sup>	COLORS
TITAN FV1	✓	✓					Black & Copper Brushed Aluminum
TITAN FV2	✓	✓			✓		Black & Copper Brushed Aluminum
TITAN FV5	✓	✓				✓	Black & Copper Brushed Aluminum
TITAN FPLV1	✓		✓				Black & Copper
TITAN FPLV2	✓		✓		✓		Black & Copper
TITAN FPLV5	✓		✓			✓	Black & Copper
TITAN FPU1	✓			✓			Black & Copper Brushed Aluminum
TITAN FPU2	✓			✓	✓		Black & Copper Brushed Aluminum
TITAN FPU5	✓			✓		✓	Black & Copper Brushed Aluminum

More Details



<sup>†</sup>IXM RFID: EM Prox - 125 KHz (4100, 4102, 4200), MiFARE - 13.56 MHz (MiFARE Classic, DESFire, DESFire EV1/EV2\*)  
<sup>‡</sup>ICLASS SE: IXM RFID + HID Prox - 125 KHz (ProxCard II), iCLASS - 13.56 MHz (iCLASS Standard, iCLASS SE/SR/SEOS)

\*DESFire EV2 cards are supported by having backward compatibility of DESFire EV1 cards.