IXM
SENSE 2

A Modern and Robust Device for Access Control.

IXM SENSE 2 is the mid-range offering from Invixium's fingerprint biometric portfolio, built for a variety of access control applications. Modern features in SENSE 2 make it an installer's dream, including PoE, Device Powers Door Strike, Presence Detect, Wiegand, OSDP v2, Speaker for custom audio feedback; all in a mullion mountable form factor. A solid metal backplate on SENSE 2, contributes to its robust construction serving as a mechanism to quickly dissipate heat for longer lasting operation and a strong foundation to withstand rough handling or vandalism.

Equipped with a high resolution 500 dpi optical fingerprint sensor, SENSE 2 achieves astonishing biometric matching speed of less than 1 sec for the maximum capacity of 40K templates in (1:N) identification mode. Additionally, inbuilt RFID card reader models (125 KHz or 13.56 MHz) allow for dual-factor authentication (fingerprint + card) for higher security and flexibility, including storing the biometric template on the card or on device.

TECHNICAL SPECIFICATIONS

Processor	ARM Cortex A8 - 1 GHz
RAM	512 MB DDR3L @ 303 MHz
Flash Memory	1 GB
Operating System	Android & Secure Linux
Fingerprint Sensor	500dpi Optical Sensor
Communication Options	TCP/IP, RS - 232, USB Aux, RS-485 (OSDP v2)
Ethernet	100BASE-T
USB	USB 2.0 (OTG), USB 2.0
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 Input, 1 Relay)
Door Strike Supply	12 VDC@500mA
Anti Shock Vandal Protection	Standard
Proximity Sensor	Auto-on (2 meters)
LEDs	RGB (Power & Status)
Audio	Speaker & Mic
1:N Users (Fingerprint)	20K users (40K biometric records)
1:1 Users (Fingerprint)	100K users (200K biometric records)
Template Storage (Privacy)	Configurable – On Device, Server or Card
Matching Speeds	< 1 second
# of Transaction Logs	500,000
PoE	IEEE 802.3af
Power Supply	PoE, 12 VDC@1A, 24 VDC@0.5A
Environmental Rating	IP65, IK08
Operating Temperature	-20° to +60° C (-4° to 140° F)
Relative Humidity	0-95% non-condensing
Regulatory Approvals & Certificates	FCC, CE, RoHS, UKCA, BIS
Dimensions	199 mm x 48 mm x 49 mm (L x W x D)

DIMENSIONS

199 mm

48 mm — 52 mm

INVIXIUM

DEVICE MODELS

Product	Model	Color
SENSE 2	FP1	Fingerprint + No RFID Reader	Black & Chrome
	FP2	Fingerprint + RFID Reader† (EM Prox / MiFARE / DESFire)	
	FP3	Fingerprint + RFID Reader† (HID Prox)	
	FP4	Fingerprint + RFID Reader† (iCLASS / MiFARE / DESFire)	
	FP5	Fingerprint + RFID Reader† (EM Prox / HID Prox / iCLASS / MiFARE / DESFire)	

More Details

†EM Prox - 125 KHz (4100, 4102, 4200)
HID Prox - 125 KHz (ProxCard II)
iCLASS - 13.56 MHz (iCLASS Standard, iCLASS SE/SR/SEOS)
MiFARE - 13.56 MHz (MiFARE Classic, DESFire, DESFire EV1/EV2*)
*DESFire EV2 cards are supported by having backward compatibility of DESFire EV1 cards.