

# IXM MERGE

Effective. Bold. Focused.



MERGE is an engineering and design marvel! With its revolutionary balance of cost and features, MERGE incorporates outstanding technology including a 2.0 inch in-plane switching (IPS) LCD delivering stunning colors and wide viewing angle, a hybrid of flex & rigid PCBA contributing to a stunningly svelte design and an innovative and razor slim sensor from NEXT operating on Active Thermal Sensing technology delivering unmatched performance with any finger type (dry, wet or otherwise). The sleek sensor also enables flush mount to the product surface for smooth and natural finger placement. Of course, this engineering masterpiece possesses the quality and performance values of the Invixium brand and is interoperable with our other products through IXM WEB.

MERGE CR has all the ingredients of the MERGE family except LCD & Fingerprint sensor. It also includes support for various RFID card technologies, making it ideal for installations where biometric and card based devices are required.



SLIM  
FACTOR



THERMAL  
SENSING



FLEX-RIGID  
PCB



IPS LCD WIDE  
VIEWING ANGLE



ANDROID OS



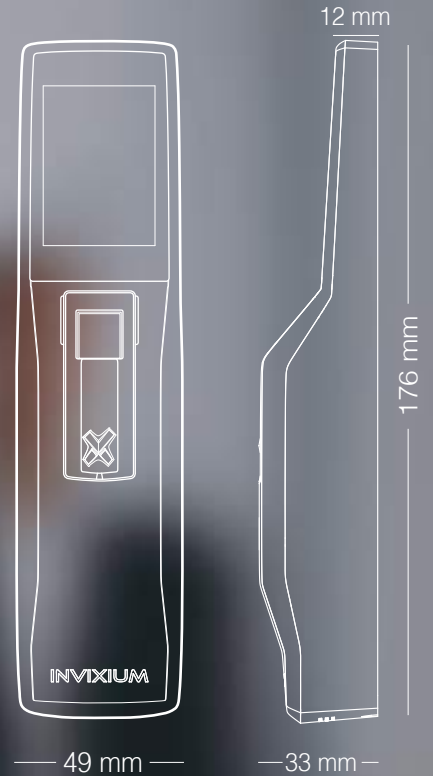
Corning®  
Gorilla® Glass



# Technical Specifications

Processor	ARM Cortex A8 – 800MHz
Random Access Memory	512 MB DDR3L
Flash Memory - NAND	512 MB
Operating System	Android® 4.1.2 (Jelly Bean)
Serial Communication	RS485, USB Aux
Ethernet	100BASE-T
Wiegand	Customizable up-to 512 bits
USB	USB 2.0 On - The - Go (OTG)
# of SPO	1
Door Access Controller	1A (1-Output, 2-Input, 1-Relay)
Anti-Shock Vandal Protection™	Standard
LCD & Interface	2.0 inch IPS Cap Touch screen
Super Strong Protective Screen Cover	Corning® Gorilla® Glass 4
LEDs	1 (Power & Status)
Audio	Speaker
1 : N Users (records)	500 users (1K biometric records)
1 : 1 Users (records)	5K users (10K biometric records)
# of Transaction Logs	25K
PoE	IEEE 802.3af
Voltage & Current	12V - 24V DC (200mA)
Operating Temperature	0° C to +60° C (32° F to +140° F)
Regulatory Approvals and Certificates	FCC, CE, RoHS, IP65 Kit (Sold Separately)

# Dimensions



# Device Models

MERGE	Sensor	Model	Color
	FP	22	White
		4	Black
			White/Black

# How to Order

MERGE	FP	22	White
MERGE	Active Thermal Sensor	Fingerprint + PIN + Card Reader† (MIFARE / DESFire)	White

FP - Active Thermal Sensor

22 - Fingerprint + PIN + Card Reader† (MIFARE / DESFire)

4 - Fingerprint + PIN + Card Reader† (iCLASS / MIFARE / DESFire)

†iCLASS - 13.56 MHz (iCLASS Standard, iCLASS SE)

MIFARE - 13.56 MHz (MIFARE Classic, DESFire, DESFire EV1)

# Technical Specifications

Processor	ARM Cortex A8 – 800MHz
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Serial Communication	RS485, USB Aux
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Anti-Shock Vandal Protection™	Standard
LEDs	1 (Power & Status)
Audio	Speaker
1 : 1 Users (records)	5K users (10K biometric records)
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PoE	IEEE 802.3af
Voltage & Current	12V - 24V DC (200mA)
Operating Temperature	0° C to +60° C (32° F to +140° F)
Regulatory Approvals and Certificates	FCC, CE, RoHS, IP65 Kit (sold seperately)

# Dimensions



# Device Models

MERGE CR

Card

CR

Color

White

Black

# How to Order

MERGE CR

CR

White

MERGE CR

Card Reader†  
(MIFARE / DESFire)

White

CR - Card Reader† Only (MIFARE / DESFire)  
MIFARE - 13.56 MHz (MIFARE Classic, DESFire, DESFire EV1)

# PRODUCT COMPARISON MATRIX



IXM MERGE CR

IXM MERGE

IXM MYCRO

IXM SENSE L series

IXM SENSE S series

IXM TOUCH S series

IXM TOUCH SX series

IXM TOUCH SX-W series

IXM TOUCH L series

IXM TOUCH LX series

Device OS	Android	Android	Android	Android	Android	Android	Android	Android	Android	Android
Tamper	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Internal Relay	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
User Capacity (1: N)	—	500	10K	10K	10K	10K	10K	10K	10K	10K
User Capacity (1: 1)	5K	5K	25K	50K	50K	50K	50K	50K	50K	50K
Log Capacity	25K	25K	100K	500K	500K	500K	500K	500K	500K	500K
Audio	Speaker	Speaker	Multi-tone Buzzer	Speaker & Mic	Speaker & Mic	Speaker & Mic	Speaker & Mic	Speaker & Mic	Speaker & Mic	Speaker & Mic
Weather Rating	IP65 Kit	IP65 Kit	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Operating Temp	0°C to +60°C 32°F to +140°F	0°C to +60°C 32°F to +140°F	-20°C to +60°C -4°F to +140°F	-20°C to +60°C -4°F to +140°F	-20°C to +60°C -4°F to +140°F	-20°C to +60°C -4°F to +140°F	-20°C to +60°C -4°F to +140°F	-20°C to +60°C -4°F to +140°F	-20°C to +60°C -4°F to +140°F	-20°C to +60°C -4°F to +140°F
Communication	Ethernet	Ethernet	Ethernet	Ethernet	Ethernet	Ethernet	Ethernet	Ethernet	Ethernet	Ethernet
Power over Ethernet (PoE)	Yes	Yes	—	Yes	Yes	—	Yes	Yes	—	Yes
Power Supply	12 VDC @ 0.5 Amp	12VDC @ 0.5 Amp	12VDC @ 1 Amp	12VDC @ 1 Amp	12VDC @ 1 Amp	12VDC @ 1 Amp	12VDC @ 1 Amp	12VDC @ 1 Amp	12VDC @ 1 Amp	12VDC @ 1 Amp
Wi-Fi	—	—	—	—	—	—	—	Yes	—	—
Fingerprint Sensor	—	Active Thermal	Optical	Ruggedized Lumidigm	Optical	Optical	Optical	Optical	Ruggedized Lumidigm	Ruggedized Lumidigm
LCD	—	2.0" IPS Touchscreen	—	—	—	2.4" Touchscreen	2.4" Touchscreen	2.4" Touchscreen	2.4" Touchscreen	2.4" Touchscreen
Battery Backup	—	—	—	—	—	—	Li-ion 1400mAH	Li-ion 1400mAH	—	Li-ion 1400mAH
Presence Detect	—	—	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dimensions (LxWxD)	139x47x34 mm 5.5x1.9x1.3 in	176x49x33 mm 6.9x1.9x1.3 in	168x48x44 mm 6.6x1.9x1.7 in	199x48x49 mm 7.8x1.9x1.9in	199x48x49 mm 7.8x1.9x1.9 in	199x48x49 mm 7.8x1.9x1.9 in	199x48x49 mm 7.8x1.9x1.9 in	199x48x49 mm 7.8x1.9x1.9 in	199x48x49 mm 7.8x1.9x1.9 in	199x48x49 mm 7.8x1.9x1.9 in
Device Models	CR	FP22 FP4	FP1 FP2 FP3 FP4 FP5	FPL1 FPL2 FPL3 FPL4 FPL5	FP1 FP2 FP3 FP4 FP5	FP1 FP2 FP3 FP4 FP5	FP1X FP2X FP3X FP4X FP5X	FP1X-W FP2X-W FP3X-W FP4X-W FP5X-W	FPL1 FPL2	FPL1X FPL2X
Color Options	White Black	White Black White/Black	Black	Black	Black	Black	Black	Black	Black	Black

CR: Card Reader (MiFARE / DESFire)  
 FP: Optical or Active Thermal sensor  
 FPL: Lumidigm Multispectral sensor  
 1: Finger only  
 2: Card Access (EM Prox / MiFARE / DESFire)  
 22: Card Access (MiFARE / DESFire)  
 3: Card Access (HID Prox)  
 4: Card Access (iCLASS / MiFARE / DESFire)  
 5: Card Access (EM Prox / HID Prox / iCLASS / MiFARE / DESFire)  
 X: PoE, Battery Backup  
 X-W: PoE, Battery Backup, Wi-Fi, Bluetooth