



# MERGE 2

Effective. Bold. Improved.

MERGE 2 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 a rugged and innovative FBI Certified optical sensor from SecuGen delivering unmatched performance with any finger type (dry, moist 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.

  
SLIM  
FACTOR

  
PoE

  
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 @ 303 MHz
Flash Memory - NAND	512 MB
Operating System	Android® OS 4.1.2
Serial Communication	RS485 (OSDP Compliant), 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" IPS Cap Touch screen
Super Strong Protective Screen Cover	Corning® Gorilla® Glass 4
LEDs	1 (Power & Status)
Audio	Speaker (2 Watts)
1 : N Users (records)	5K users (10K biometric records)
1 : 1 Users (records)	25K users (50K biometric records)
# of Transaction Logs	100K
PoE+	IEEE 802.3at
Power Supply	12V DC @ 1A, 24V DC @ 0.5A
Operating Temperature	0° C to +60° C (32° F to +140° F)
Relative Humidity	0% ~ 80%, non condensing
Regulatory Approvals and Certificates	FCC, CE, RoHS, IP65

# Dimensions



# Device Models

MERGE 2	Sensor	Model	Color
	FPU	22	Black
		4	

# How to Order

MERGE 2	FPU	22	Color
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MERGE 2

FBI Certified  
Optical Sensor

Fingerprint +  
PIN +  
Card Reader†  
(MiFARE / DESFire)

Black

FPU - FBI Certified Optical 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/EV2\*)

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