

F310

All-scene
Terminal

Smart Financial Terminal

Android 13 OS, high performance processor and stable network bring smooth and stable operation experience



Android 13



4G + 3G + 2G
WiFi 2.4GHz/5GHz
BT 5.0



6.5" HD LCM
8MP + 2MP Cameras



MSR + IC
+ NFC + QR

Applicable to various application scenarios

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|--------------|-------------------------|---------------|-------------------|-------------|-------------|-----------------------|----------|
| | | | | | | | |
| Retail | Supermarket | Restaurant | Hotel | Parking lot | Gas station | Bank | Election |
| | | | | | | | |
| Registration | Criminal Identification | Dentification | Time & Attendance | eSignature | eVoting | Online Authentication | eHealth |



F310

ID: F310 P



Operating System	Android 13
Processor	Quad-Core, 4x2.0G, A53
Memory	RAM: 2GB/ROM: 16GB, Optional RAM:3GB /ROM:32GB, RAM:4GB /ROM:64GB
Communications	4G (LTE-FDD/LTE-TDD) + 3G (WCDMA) + 2G (GSM), WiFi 2.4GHz/5GHz, BT5.0 (BR/EDR+BLE)
Location	GPS, Beidou, Galileo, GLONASS, QZSS, SBAS
Display	6.5 inch, 720 x 1600, IPS LCD, Multi-touch
Cameras	Rear Camera: 8MP AF with Flash LED, Support Scanner 1D&2D code Front Camera: 2MP FF, Support Scanner 1D&2D code
Battery	3.8V/3000mAh
Magnetic Card Reader	ISO/IEC 7811, ISO/IEC 7813, Track 1/2/3, Bi-directional swiping
IC Card Reader	ISO/IEC 7816, Conform to EMV L1/L2
NFC	13.56MHz, ISO/IEC 14443, ISO18092, Type A&B
Keys / Buttons	Power Key, Function key, Volume+/- key
Sensor	Proximity Sensor(P-Sensor), Light Sensor(L-Sensor)
Card Slot	SIM*1 + PSAM*2
Peripheral Ports	Type C*1 (USB2.0, OTG), Pogopin(5PIN)*1, Pogopin(8PIN)*1
Adapter	Input: 100-240V AC, 50/60Hz 0.35A Output: 5.0V DC/2.0A
Physical	173mm (L) x 82.5mm (W) x 17.2mm (H)
Weight	278g
Environment	Operating Temperature: -10°C ~ 50°C (14°F~122°F) Storage Temperature: -20°C ~ 70°C (-4°F~158°F) Relative Humidity: 5%-96% (Non-Condensing)
Accessories	Adapter*1, USB Cable(only charging)*1, Manual*1
Certifications	PCI, EMV L1/L2, EMV CL L1, Amex, Paywave, Paypass, Discover, Pure, TQM, QUICS, CE, FCC, ROHS, Google GMS Safety net Compliance

Printer Module

Printing Method	Thermal dot printing
Number of Dots	384dots/line
Resolution	8dots/mm (203dpi)
Print Width	58mm(57.5±0.5mm)
Max Printing Speed	70 mm/s Max
Physical	89.8(L)mm*82.7(W)mm*76.7(H)mm



Unattended

Cameras	Front Camera: 2MP FF, Support Scanner 1D&2D code Rear Camera: None
Ports	RS232-A(RJ45)*1, RS232-B(RJ45)*1, LAN(RJ45)*1, PWRDIG.I/O*1, MDB-M EXE*1, MDB-S*1, 4G SMA*1, Type-A*1
Physical	195.7(L)*101(W)*64.2(H)mm
Ingress Protection Rating	IP 54



Battery Options

5000mAh/3.8V	173(L)mm*81(W)mm*26.4(H)mm
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Fiscal

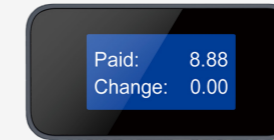
Fiscal module*1	
3000mAh/3.8V	173(L)mm*81(W)mm*26.4(H)mm





Scanner Module

Scanner Module	Scanner Module*1
Motion Tolerance	High motion tolerance(6 m/s)
Max Image Speed	Maximum image capture rate of 120 fps
1D/2D	Supports 1D, 2D, and OCR as well as Packaging bar codes and screen bar codes
Physical	50.0(L)mm*90.1(W)mm*28.0(H)mm



Customer Display

Printer Screen	1.65 inch 128*64Dots Graphic*1
Paper size	58*40mm
Printing Method	Thermal dot printing
Number of Dots	384dots/line
Resolution	8dots/mm (203dpi)
Print Width	58mm(57.5±0.5mm)
Max Printing Speed	70 mm/s Max
Physical	89.8(L)mm*86.2(W)mm*76.7(H)mm

Silicone Cover



Ingress Protection Rating	IP66
Drop	Drop 1.8mm
Physical	191.5(L)mm*95.4(W)mm*33.9(H)mm



Ingress Protection Rating	IP67
Drop	Drop 1.8mm
Physical	191.5(L)mm*95.4(W)mm*33.9(H)mm



Capacitive Fingerprint

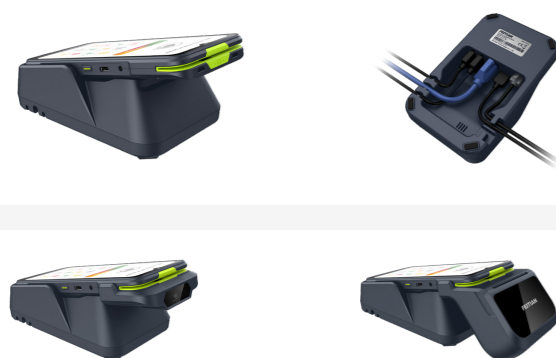
2"Printer(58mm)*1

Printing Method	Thermal dot printing
Number of Dots	384dots/line
Resolution	8dots/mm (203dpi)
Print Width	58mm(57.5±0.5mm)
Max Printing Speed	70 mm/s Max

Capacitive fingerprint module *1

Image Size	256 x 360 pixels
Image Resolution	508 dpi
Sensor Type	Semiconductor capacitive
Physical	89.8(L)mm*91.7(W)mm*76.7(H)mm

Charging Cradle



+QR

+Print

Ports	Type-C*1, RJ45*1, Type-A*2, RJ11*1(R232)
Physical	159.6(L)mm*100(W)mm*51.0(H)mm

Multi Dock



Dock screen	LCD 2.4 inch, TFT 240*320
Camera	0.3M FF*2(640x480)
Ports	Type-C*1, RJ45*1, Type-A*2, RJ11*1(R232)
Physical	279(L)mm*100(W)mm*75.5(H)mm



Smart ECR

Display Main Display*1(10.1" TFT)

2"Printer(58mm)*1

Printing Method	Thermal dot printing
Number of Dots	384dots/line
Resolution	8dots/mm (203dpi)
Print Width	58mm(57.5±0.5mm)
Max Printing Speed	70 mm/s Max

Camera 0.3M FF*1(640x480)

Scanner	Support Scanner 1D&2D code
Physical	173.3(L)mm*303(W)mm*281.7(H)mm

Optical Fingerprint



ID optical fingerprint module*1 (CBM E3/V3, Slim2/2s, Slim3, FS81)

Image Quality Standards	FBI PIV/Mobile ID FAP30 compliant
Sensor Type	Optical
Resolution	500 ppi
Gray Scale	256 level
Physical	107.6(L)mm*89.8(W)mm*24.5(H)mm



Identification Printer

ID optical fingerprint module*1

Image Quality Standards	FBI PIV/Mobile ID FAP30 compliant
Sensor Type	Optical
Resolution	500 ppi
Gray Scale	256 level
2"Printer(58mm)*1	
Printing Method	Thermal dot printing
Number of Dots	384dots/line
Resolution	8dots/mm (203dpi)
Print Width	58mm(57.5±0.5mm)
Print Thickness	60~80µm
Max Printing Speed	70 mm/s Max
Physical	107.6mm(L)*90.1(W)*68.35(H)mm

Passport Reader

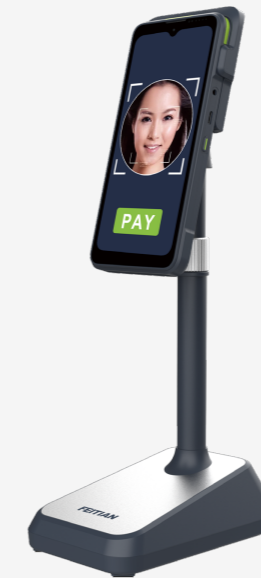


ID optical fingerprint Module*1

Image Quality Standards	FBI PIV/Mobile ID FAP30 compliant
Sensor Type	Optical
Resolution	500 ppi
Gray Scale	256 level

MRZ Module

Supported Protocols	ISO 14443 Part 1 to 4, type A/B - T-CL and Mifare
All Mifare Products	Ultralight, 1K, 4K, Plus, DESFireEV1, Smart MX
Speed	Baudrate up to 848 khps
MRZ Lines	1 line IDL
CAN. 2 lines	ID2 cards
ePP. 3 lines	eID
Font Type	OCR B
Physical	107.6(W)mm*153.1(L)mm*52.3(H)mm



Self-service kiosk A

Front Camera	5MP AF(2560×1920), Support Scanner 1D&2D code, Face recognition
Ports	Type-C*1, RJ45*1, Type-A*2, RJ11*1(R232)
Physical	355(L)*160(W)*100(H)mm

UHF RFID

UHF Module*1

Supported Protocols	EPCglobal UHF Class 1 Gen 2 /ISO 18000-6C
Operating Frequency Band Range	840Mhz – 960Mhz
Peak Inventory Tag Speed	>60sheets/sec
Applicable Distance	0-2m
Work Area Support	US, Canada and other regions following U.S., FCC Europe and other regions following ETSI EN 302 208

Scanner Module*1

high motion tolerance (6 m/s)
maximum image capture rate of 120 fps. supports 1D, 2D, and OCR as well as Packaging bar codes and screen bar codes

Physical 50.35(L)mm*89.8(W)mm*83.9(H)mm



Self-service kiosk B

Front Camera	5MP AF(2560×1920), Support Scanner 1D&2D code, Face recognition
Ports	Type-C*1, RJ45*1, Type-A*2, RJ11*1(R232)
Paper size	58*40mm
Printing Method	Thermal dot printing
Print Width	58mm(57.5±0.5mm)
Max Printing Speed	70 mm/s Max
Number of Dots	384dots/line
Resolution	8dots/mm (203dpi)

Palmar vein module*1

Brush the palm within the distance of 5cm~12cm
Color map, infrared map, time synchronization
Color, infrared, pixel-level alignment
The color camera supports the function of scanning codes at close range
Adapt to 0~30000Lux illuminance range
Support Scanner 1D&2D code

Physical 191mm(L)*100(W)*380(H)mm