F880
UHF Mobile Computer

NEW THOR SERIES

CILICO®
RFID Mobile Computer Expert

CILICO F880 is a highly integrated, full-featured industrial-grade smart handheld terminal based on Android 9.0 OS. It is equipped with 2.5GHz octa-core processor. High-level configurations ensure fast running. Integrated with UHF, 1D/2D scanning, dual PSAM, NFC and other IoT functions, smart and powerful, reading distance up to 3~5 meters, designed for data collection of various industries such as warehouse inventory, intelligent inspection, manufacturing, warehousing, logistics, and retail industries etc.

Smart and powerful
Excellent customer experience

- Great UHF R/W performance, reading distance up to 3 meters above, support UHF global frequency, suitable for widely markets
- UHF, 1D/2D scanning, and NFC all-in-one, smart and powerful

Octa-core/2.5GHz
High speed CPU

- Equipped with 2.5GHz, octa-core processor
- Internal acceleration engine, smoothly running with multi-task synchronously

Powerful
Wireless Communication

- 4G global frequency bands, meet the needs of users around the world
- Dual-band Wi-Fi (2.4G+5G), seamless roaming, signal is more stable
- For the global application scenario adaptation, the industry-leading NFC solution is selected to support mainstream NFC cards in the market.

5.5 inch Large Screen

- 1080P, 1920*1080 resolution
- Corning Gorilla Panel, visible under glare, support gloves / wet hand operation

IP67 Sealing level

- Soft and hard plastic double material injection molding, military defense quality, dustproof, waterproof, anti-fall
- 6 sides can withstand the multiple 1.5m (5 ft) drops to concrete
- IP67 rated protection, can be fully immersed in water depth of 1.5 meters, suitable for outdoor, cold chain, warehouse and other harsh environments

5700mAh Super battery life

- Support 8 hours of continuous work
- Standby time up to 300 hours
- Equipped with CILICO ETs system-level power-saving management solution, excellent endurance performance, to meet the user's all-day experience

Internet of Things Industry System

- Based on CILICO IoT OS V2.2, the software operation is simpler, and the system interface is more in line with the industry customers' habits
- Self-developed MDM cloud platform, reducing management and maintenance pressure
- Customizable system security management to ensure enterprise data security

Multi-industry Application

- Powerful barcode scanning and electronic tags reading capabilities, perfect for warehouses, intelligent inspection, manufacturing, warehousing logistics, retail and many other industries and fields

WAREHOUSE INVENTORY | INSPECTION | PRODUCTION & MANUFACTURE | LOGISTICS | RETAIL

F880 TECHNICAL PARAMETER

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Physical Parameter

Size	180mm×84mm×21mm (L×W×H)
Weight	380g (including battery)
Display	5.5 inch IPS screen Resolution: 1920*1080
Touch panel	Capacitance, support wet hand and glove-based input
Backlight	LED Backlight
Battery	Li-polymer, 5700mAh Uptime: more than 8 hours Standby time: 300 hours
Card slot	1 SIM card slot, 2 PSAM card slots I Micro SD card slot
Communication interface	Type-c, support OTG
Network connections	4G/3G/2G, Wi-Fi, Bluetooth, GPS, BDS, GLONASS
Notification	Warning Tone; Multi-color LED; Vibration
Keyboard	On-screen Keyboard+3 Virtual Keys: Back, Home and Menu
Audio-frequency	Microphone, Loudspeaker and Receiver
Keypad	Power switch: 2 Scan keys; Volume keys (+,-)
Power adaptor	Input: 100-240V, 50/60HZ 300mA Output: 5V, 2A

Performance Parameter

CPU	Octa-core, 2.5GHz
OS	Android 9.0
Memory	3GB RAM/32GB ROM

Working environment

Operating temperature	-4°F—122°F/-20°C—50°C
Humidity	5% to 85%(non-condensation)
Drop specification	4.9 feet / 1.5 m height to the concrete ground
Roll specification	500 times of 1.6 feet / 0.5 m rolls; higher than IEC roll standard
Vibration	4g SPK Sine (5Hz to 2KHz); 0.04g2/Hz randomness (20Hz to 2KHz); 60 minutes per axle, 3 axles
Thermal shock	-40°F to 140°F/-20°C to 60°C fast fade
Electrostatic protection	+/- 10kv air discharge; +/-8kv contact discharge
Sealing level	Host IP67

Wireless Communication

WWAN	GSM/GPRS/WCDMA/CDMA/ TD-SCDMA/TDD-LTE/FDD-LTE
WIFI	WIFI frequency: 2.4GHz & 5GHz WIFI protocol: 802.11a/b/g/n/ac
GPS	GPS \BDS\GLONASS
Bluetooth	Bluetooth 4.2

Data Collection

Supported 1D Symbologies	UPC/EAN, Bookland EAN, UCC Coupon Code, ISSN EAN, Code 128, GS1-128, ISBT 128, Code 39, Trioptic Code 39, Code 32, Code 93, Code 11, Interleaved 2 of 5, Discrete 2 of 5, Codabar, MSI, Chinese 2 of 5, Korean 3 of 5, Matrix 2 of 5, Inverse 1D, GS1 DataBar, Composite Codes, etc.
Supported 2D Symbologies	PDF417, MicroPDF417, Data Matrix, Data Matrix Inverse,Maxicode, QR Code, MicroQR, QRinverse, Aztec, Aztec Inverse, Postal Codes: USPostnet, US Planet, UK Postal, Australian Postal, Japan Postal, Netherlands KIX Code, USPS 4CB/One/Intelligent Mail, UPS FICS Pstal, etc.
Camera	Front camera: 2 MP Rear camera：13 MP, auto-focusing; support flashlight
NFC	Operating frequency: 13.56MHz Support protocol: MifareClassic (MF1) NDEF, NfcV (15693), Ultralight (MF0), IsoDep (Quasi CPU MF3), IsoDep (CPU) Reading distance: 0-5cm (depending on the label and antenna)

RFID	Operating frequency:
	    CN: 920-925MHz
	    US: 902-928MHz
	    EU: 865-868MHz
	    JP: 916-921MHz (wLBT)
	    JP: 916-923MHz
	Support protocol: ISO18000-6C/EPC C1G2
	Reading distance: 3~5 m (depending on the label and antenna)

Security PSAM	Supporting ISO7816 standard, supporting 2 PSAM cards
Sensors	Light sensor, distance sensor, gravity acceleration sensor, geomagnetic transmission sensor, Hall sensor (optional)

Others

Certification	CE/CCC/UN38.3/RoHS/IP67/FCC
Accessories	Power Adapter/USB cable/ battery
Optional accessories	Multiple charging cradle

CILICO Microelectronics Ltd