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 7.1 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

- 500 nits with sunlight-readable technology
- anti-reflective treatment that allows reading in sunlight and the version of Gorilla Glass is v.3

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

- Support 10 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

Physical Parameter

Size	180mm×84mm×21mm (L×W×H)
Weight	385g(including battery and hand strap)
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 10 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, 2.5 GHz, 64 bits processor, cache memory 2Mb
OS	Android 7.1 /Android 9(optional)
Memory	3GB RAM/32GB ROM

Working environment

Operating temperature	-20℃to 50℃
Humidity	5%--95%
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
Storage temperature	-10℃to 70℃
Electrostatic protection	+/- 10kv air discharge; +/-8kv contact discharge
Sealing level	IP67 IEC60529-IP67 rated protection, can be fully immersed in water depth of 1.5 meters, suitable for outdoor, cold chain, warehouse and other harsh environments.

Wireless Communication

WWAN	2G GSM/2G GPRS/3G WCDMA/3G CDMA/3G TD-SCDMA/ 4G TDD-LTE/4G 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	JAN/UPC/EAN incl. add on, NW-7, UCC Coupon Code, Code 128, GS1-128, ISBT 128, Code 39, Trioptic Code 39, Code 32, Code 93, Code 11, IATA, Interleaved 2 of 5, Industrial 2 of 5, ISBN-ISSN, ISSN-EAN and ISSN, Codabar, MSI, Chinese 2 of 5, Korean 3 of 5, Matrix 2 of 5, MSI/Plessey, Inverse 1D, GS1 DataBar (RSS), Composite Codes, etc.
Supported 2D Symbologies	PDF417, MicroPDF417, Data Matrix, Data Matrix Inverse, Maxicode, QR Code, Code 49, Code 16K, 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 Postal, etc.
Camera	Front camera: 2 MP Rear camera：8 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/IEC60529-IP67/FCC/ MIL-STD-810G Method 516.7,procedure IV
Accessories	Power Adapter/USB cable/ battery
Optional accessories	Multiple charging cradle