TB128

7" Rugged Tablet Computer

The new TB128 offers a superlative experience with a great list of unique features for ultimate flexibility and durability. This 7 inch industrial tablet PC adopts Quad Core 1.3 GHz CPU, Android 6.0 operation system and can configure barcode scanning, UHF RFID reader. Built in a physical keypad with programmable hot keys, TB128 is not only friendly and intuitive, but also smart as it helps enterprise users to operate long time in the inside and outside. This device is durable enough to be persistently reviewed in extreme temperatures or super heat environment. Moreover, it is able to survive a fall and suitable for logistic and retail applications.

Industrial tablet with a numeric keypad

The TB128 industrial tablet was built to be functional first and foremost, but it also offers an elegant design with durability. In addition to a 7 inch multi-touch Gorilla Glass display which protects the glass from drops on rough surfaces, the TB128 includes a stylish numeric and function keypad which is more convenient for users to input data in a short time.

Versatile functionality

Powered by a 1.3 Ghz Quad Core Processor, and running on Android 6.0 operation system, TB128 provides superior fast performance and smooth operation as well as combining UHF RFID reader, 2D barcode scanning, NFC and 8.0MP auto focus camera in one durable tablet. In addition, it supports 802.11a/b/g/n wireless networks and Bluetooth 4.1 that fulfills high flexibility for field services workers to get connected anywhere.

Durable Design

Engineered to perform in any environment, TB128 is rugged enough to drop from the 1.2 meters onto concrete. Moreover, it has IP65 certification, completely sealing durable housing against dust and moisture to withstand water jets. It not only that, but this device meets sturdy MIL-STD-810G military standard, boasting shock resistance, anti-vibration and together with a wide operating temperature range of -10°C to 50°C. TB128 also has a removable battery to keep tablet going longer, it brings a new level of industrial tablet with high reliability for business applications and field service.

Features

- Android 6.0 operation system; Quad Core 1.3 GHz CPU; RAM 3G
- IP65 rated, 1.2M drop and MIL-STD-810G certified
- Large 7-inch color multi-touch sunlight-readable display
- Built in UHF RFID reader, 2D scanner, keypad, and 8 Megapixel camera
- Support blazing-fast 4G LTE wireless communication
- Latest Bluetooth v4.1, GPS, Wi-Fi and wireless LAN 802.11 a/b/g/n quad-mode radios
- Easy Hot-swap battery design without downtime

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System Features

CPU	MTK MT8735 1.3Ghz Quad Core Processor
Memory	3GB Mobile DDR RAM
	16GB NAND Flash
OS	Android 6.0
Languages support	English, Simp. Chinese, Traditional Chinese, Japanese, Spanish, German, French

Display

Gorilla Glass III with capacitive touch pannel

7" Color Transmissive 1280x800 dots LCD

Keypad

37 physical keys. Numeric and functionable keys

Indicator

1 LED indicate charge/Message
Vibrator

Optional Modules

1D CCD Barcode scanner

1D Barcode Engine	UPC-A/E, EAN-8/13, Codabar, Code 39, Code 39 full ASCI, Code 93,Code 32, Interleaved & Std. 2 of 5, EAN 128, Code 11, Delta, MSI/Plessey,Code 128, Toshiba, RSS expended, RSS Limited, RSS14.

2D Imager

1D	All major codes
2D	PDF417, MicroPDF417, Composite, RSS, TLC-39, Datamatrix, QR code, Micro QR code, Aztec, MaxiCode, Postal Codes: US PostNet, US Planet, UK Postal, Australian Postal, Japan Postal Dutch Postal (KIX)

Audio

1W speaker 85 dB at 10cm , 3.5ψ Audio Jack, Receiver, Microphone

Enclosure

Weight	735g with 2D SE4750 Engine version (with Battery)
Dimension	264.5x143.7x18.8 (mm)

Regulatory Approvals

CE, NCC, FCC, BSMI, VCCI, CCC, RoHS compliance. WiFi b/g/n. Bluetooth
Microsoft Azure IOT

Communication

Camera and Flash Light	2M Pixels Front Camera
	8M Pixels Rear Camera CMOS Sensor Camera with Auto focus, LED flash light
External storage	Support MicroSD memory card up to 64GB
USB	USB 2.0 OTG
WLAN	IEEE 802.11 a/b/g/n
Bluetooth	Bluetooth 4.1 with Bluetooth SIG certification
WWAN	2G – GSM: GSM850, EGSM900, DCS1800,PCS1900
	3G – UMTS: Band 1, Band 2, Band 5, Band 8
	4G –LTE: FDD Band 1(2100), Band 2(1900), Band 3(1800), Band 5(850), Band 7(2600), Band 8(900), Band 20(800)
	TDD: Band 38(2600), Band 39(1900), Band 40(2300), Band 41(2500), SIM slot x1
GPS	GPS supports MS-assisted, MS-based and autonomous operation modes
Other Sensors	eCompass
	Light & Proximity sensor
	G-sensor
RFID/HF	Frequency: 13.56MHz
	Tag Support: ISO15693, ISO14443A , ISO14443B
	Support NFC
RFID/UHF (Optional)	Frequency 902~928 MHz
	Frequency 865.6~867.6 MHz
	TX Power 24dBm (2.5W)
	Vertical polarized antenna
	Reading distance : 1m (Depends on the tag and environment)

Environmental

Operating temperature	14°F to 122°F (-10°C to 50°C)
Storage temperature	-4°F to 140°F (-20°C to 60°C)
Charging Temperature	32°F to 104°F (0°C to 40°C)
Relative Humidity	5% ~ 95% (non-condensing)
Drop test to Concrete	1.2 meter MIL-STD 810G,Method 516.6,Procedure IV
Environmental Sealing	IP65 IEC/EN 60529 Standard
Vibration and Shock test	MIL-STD-810G, Method 514.6, Procedure I MIL-STD-810G,Method 514.6,Procedure II, Category 5

Power Source

Main Battery	Hot-swap Battery. 19.24Wh 3.8V @5200mAh Li-Polymer battery pack
Backup Battery capacity	1 hour

Software

Support versatile MDM systems: Airwatch, SOTI, 12Management and MoboLink

Accessories

Single Slot USB Client/Host Cradle with Single Slot Battery Charger
Handstrap
5200 mAH standard Battery
USB Communication Cable
Power adaptor with universal plugs

06/17 Rev.A(4)