.S50

4.5" Rugged PDA T9 Keyboard Mobile Handheld

Overview

S50 intelligent terminal is ideal for highly mobile outdoor and field workers in markets like logistics, construction, mine, military, field sales and the public sector. It meets MIL-STD-810G and IP65 standards for durability and protection against dirt dust, water, motion, vibration, temperature and other factors that would quickly damage an industrial-grade handheld device. It can withstand up to a 1.8m drop and 2 ton shock pressure test. It also comes with a suite of integrated features, including an UHF RFID, 1D/2D barcode scanner, NCF. Also it goes with a long-life 5000mAh/10000mAh battery sunlight-readable, and operating under extreme low temperature.

Features

- ARM Cortex A73 Octa-Core 2 GHz
- Operating System Android 10/11...
- Screen size 4.5-inch IPS, resolution 540x960 QHD
- Optional: 1D, 2D barcode reader, NFC, RFID
- Supports 4G, Wi-Fi, Bluetooth and GNSS
- High-capacity battery 5000mAh
- MIL-STD-810G & IP65 certified

Android 10/11	Barcode 2D	High-capacity	IP65	RFID

I/O Interfaces

Arrow And Confirm Button
Home
Back Button
Number Button
Power ON/OFF
Menu Button
Type-C (Sealed Cover)
Handset
Charg Lamp
Volume +
Volume -
Scan Button
2pin Pogo Pin
Button

Speaker
Battery
Nameplate
Flash Lamp
Main Camera
MIC
Scan Button
Power Button
Earphone (Sealed Cover)
Barcode Scanner (Optional)

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Specifications

DISPLAY	
Size	4.5-inch IPS/AFFS QHD
Touch type	Capacitive/Frosted tempered film supports glove touch / spray / active capacitive pen
Resolution	540 x 960
Luminance	500 nits
SYSTEM	
CPU	MediaTek MT6771 ARM Cortex-A73 Octa-Core 2.0 GHz
Memory	4 GB
Storage	32 GB
External Memory	Micro SD Card (T-Flash Card), max 1TB
Graphics	ARM Mali-G72 MP3
Operating System	Android 10/11
Camera	Main : 13.0MP (AF) with Flash Led
Sensor	Gravity, Magnetic Field, Motion, Gyroscope, Light, Acceleration
I/O PORTS	
USB	1x USB Type C OTG
SIM Card	1.8/3.3V SIM Card
TF Card	Micro SD Card (T-Flash card), max 1TB
Charging interface	1x Type-C & 2-Pin Pogo Pin
Headphone	3.5mm (CTIA)
COMMUNICATION	
Wi-Fi	Dual-Band Wi-Fi (2.4GHz/5.0GHz), single stream 802.11 a/b/g/n/ac
Bluetooth	Bluetooth V5.0 Low Energy (LE)
Cellular	Phone Call : GSM/WCDMA/VoLTE 2G : GSM/EDGE/GPRS/WAP 2G BAND : GSM (B2/3/5/8) 3G : WCDMA 3.75G (HSPDA+42.2Mbps, HSUPA+11.5Mbps) 3G BAND : WCDMA (B1/2/5/8) 4G : FDD: 150Mbps down, 50Mbps UP TDD: 150 Mbps, 50Mbps UP 4G BAND : TD-LTE (B38/39/40/41); FDD LTE (B1, B2, B3, B4, B5, B7, B8, B12, B17, B20, B28)
GNSS	GPS, GLONASS, BeiDou, AGPS, SBAS (EPO 2.5m)

OPTIONAL MODULES		
Extension 1	UHF Module	(M500 ASTM) + Antenna (M500 EN) + Antenna
	LF RFID Module	125K LF ID Card (8H-10D) 125K LF ID Card (10D) 125K LF HID Card Module 134.2K LF Animal Tag Module

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	HF RFID Module	13.56M HF module (single protocol) 13.56M HF module (multi protocol)
	1D/2D Barcode Module	
	RS-232 Module	Optional RS-232 serial port, using M8 5-Pin aviation plug to 9-Pin adapter
	NFC Module	
	Other customer supply modules	Need to meet the interface conditions: Powered by 3.3V-1.5A/5V-1.5A, UART interface, interface level 3.3V/5V, GPIO 1 /Electrical level 3.3V/5V
Extension 2	Battery	Optional 10000mAh – Replaceable battery
	NFC Module	

ENVIRONMENT	
Charger	5.0V 2A 10W
Operating temperature	-20ºC to 55ºC
Storage temperature	-40ºC to 80ºC
Relative humidity	5% to 95%, non-condensing
Operating Altitude	Max: 4,500m (15,000 feet)
Shake-proof	1-19Hz /1.0mm; 19-200Hz/1.0g
Dropproof / IK	MIL-STD-810G/Method516.6/Procedure IV & Touch Panel IK05
Waterproof	Class 5 (IEC 60529)
Dustproof	Class 6 (IEC 60529)
Reliability	MTBF >5000h; MTTR <0.5h
IP Rating	IP65 (IEC 60529)
Language	French, English, Spanish, Portuguese (Brazil), Portuguese (Portugal), Italian, German, Dutch,, Polish, Romanian, Turkish, Russian, Arabic, Indonesian, Malay, Thai, Vietnamese, Hindi, Hebrew, Simplified, Chinese, Chinese Traditional,...

BATTERY	
Battery type	5000mAh – Replaceable Battery

MECHANICAL	
Dimensions (L x W x H mm)	197 x 92 x 26.5 mm
Weight (kg)	420g
Color	Black&Yellow, Black&Green, Black&Gray (PC+ABS+TPU)

CERTIFICATION	
Certification	CE, 3C, ROHS, FCC

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Dimensions

Ordering Information

Ref.	Description
S50	4.5", 540x960, 500 nits, MT6771, 4+32GB, Gray, Neutral