

## **ST908 Industrial PDA**

**android 5.1/4 Core/ 4G/WIFI/BT/GPS/IP65**

ST908 Mobile Android PDA terminal is portable and digital data acquisition mobile terminal with the functions of 1D /2D barcode scanning PDF417 barcode,QR code, UHF RFID reader, GPS positioning, WIFI, Bluetooth, Camera and so on.

NFC RFID Reader is available with 14443A, 14443B and ISO15693 protocol ,UHF RFID 860MHZ to 960MHZ America standard and European standard.

It can be widely used in the area of industrial, industrial manufacturing, logistics management, assets management and routing inspection, Motorcycle Race, Person access control system, electric power inspection domain, warehouse management, animal management, metal management and etc.

**Your Best Choice of Industrial PDA, Direct Deal from Factory.**





## I. Features

Android 5.1 operating system

MSM 4 core CPU, 1.2GHZ; RAM: 1G; Flash: 8G (optional RAM2G,ROM16G)

IP65/Drop resistance from 1.2m

4 inch IPS LCD screen

4G, WI-FI, Bluetooth, GPS

Physical keypad on Android

1D CCD barcode scan, 1D laser barcode scan, 2D barcode scan

RFID reading function: LF/HF/UHF RFID Reader

Fast built-in Printer

Pistol grip and docking station (Cradle)

Dual-battery System

## II. Applications

Logistics/ Medical / Power/Gas Inspection/Purchasing Fair/ warehouse management



Trace and Locate



Collect and Record



Check and Update

## III. Specifications

### Standard Parts

#### General Specifications

Operating system	Android 4.4 embedded OS or android 5.1
CPU	Quad core processor,1.2GHz CPU
RAM	RAM 1G; FLASH 8G or RAM 2G; FLASH 16G
Ports	One USB 2.0 port(OTG supports U Flash Disk, Mouse, 100M ethernet port), one charging mouth, one TF card(128G), one SIM card

#### Protection Grade

Industrial Protection Grade	IP65
Drop Grade	Drop resistance from 1.2m

#### Wireless Communication

Bluetooth	V4.0
GPS	Built-in Beidou/GPS/GLONASS; supports A-GPS; External Beidou/GPS/GLONASS; supports RTCM 2.3 differential data
WIFI	Support IEEE 802.11b/g/n
4G	2G:GSM 900/1800/1900 B2/B3/B8 3G:WCDMA: 850/1900/2100 B1/B2/B5 4G:LTE_FDD: 1800/2100/2600 B1/B3/B7 LTE_TDD :2555-2655MHz/:2300-2400MHz B41/B40

#### Data Acquisition (Optional)

Barcode Scanning	<p><b>1D Laser Scanner Index:</b>  <b>Support Motorola or Honeywell</b>                  Scanning speed: 104 times/second+12 times/second (two way scanning)                  Scanning distance: 2.5cm-50cm</p>	
	<p><b>2D Barcode Scanner Index:</b>                  Scanning speed: 10 times/second                  Depth of field: 5cm-40cm                  QR code,PDF417 code.</p>	
RFID	<p><b>LF RFID:</b>                  134KHZ LF RFID or 125KHZ LF RFID                  Identification distance: 0-3 cm</p>	
	<p><b>NFC (HF) RFID:</b>                  Working frequency: 13.56MHZ                  Profile: Support ISO/IEC 15693, ISO/IEC 14443A profile                  Support Cards: SR176, SRIX4K (TYPE-B), I- Code2, TI RFID label-it HF-I, EM4034, Mifare Classic ETC                  Identification distance: not more than 5cm</p>	
	<p><b>UHF RFID:</b>                  Working frequency: 840-960MHZ(customization of required frequency band)                  Support agreement: EPC C1 GEN2/ISO 18000-6C /ISO18000-6B                  Output power: 10dBm-30dBm                  Identification distance: not more than 6m</p>	
Printer	Printing Method	Thermal Printer
	Resolution	8 dots/mm(384 dots/line)
	Printing Speed	about 10mm/s
	Paper Width	58mm
	Printing Width effect	48mm
	Port Form	Serial Port
	Print Font	Size:12*24dots, Number per line:32
	RAM	16k
	Flash (Printer buffer_	4K
	Paper Roll Diameter	58mm(width)*30mm(dia)
	Paper Thickness	0.06-0.08mm
	Paper Loading Method	manual feed
	TPH Reliability	50km/10^8pulse
	Barcode	code39,code128,EAN13,QRcode

## Android Handheld Terminal

		and so on
	Sensor	optocoupler
	Interface	serial
	Weight	21g
	Dimension(WxLxH)	67.6±0.5mm*23.2±0.5mm*25.5±0.5mm
	Button	Paper feeding button
	Button	Paper feeding button
	Power	5DC/2-3A
<b>Physical Layer Parameter</b>		
Display Screen	4 inch LCD screen, 480x800 IPS screen, capacitive touch screen	
Touch screen	Thicken tempered glass(thickness 1mm); supports 10 points touch and double-click for waking up	
Keyboard	Physical keypad with 19 physical keys	
Camera	8.0 million Pixels; support auto focus and fill-flash function.	
Headset	Supports standard headset 3.55mm, Bluetooth headset; support Mike and receiver function	
Vibration Function	Vibrating prompt function	
Sensor	Supports light sensation, gyroscope, compass, gravity	
Flashlight Function	Used for emergency lighting	
Rechargeable Lithium Battery	3.7V, 3800mAh	
Dock station (Cradle)	support	
Pistol grip	Support	
Handle Battery	3.7V, 5000mAh	
Standby	The standby current is less than 10mA	
Dimension	168mm*75mm*26mm	
Weight	350g	
<b>Environmental characteristics</b>		
Working Temperature	-30℃ ~ +50℃	
Storage Temperature	-40℃ ~ +60℃	
Humidity	5%-95% relative humidity; no condensation	

## Packing

NO.	Items
1	ST908 Industrial PDA
2	Charger
3	USB Cable
4	Earphone (Optional)
5	<b>OTG line(optional)</b>
6	Pistol grip(optional)
7	UHF RFID reader(optional)



## Ordering Information

Ordering Information	Module Code	Module details
<b>Standard / Basic Part</b>		
<b>ST908 Host</b> LTE/WCDMA/GSM LTE_FDD B1/B3/B7 LTE_TDD B41/B40 WCDMA B1//B2/B5 GSM 900/1800/1900	<b>ST908</b>	Android 5.1 OS, Quad Core, 1.2G IP65 / Bluetooth /4G/ WIFI / GPS with accuracy 10m 4 inch IPS 400*800 / 8 Million Pixels Camera 3800mAh Lithium Battery
GPS	G	GPS/A-GPS/GLONASS
<b>Optional Module</b>		
Barcode Scanning	N	1D laser barcode Honeywell N4313

Android Handheld Terminal

		9	1D Laser Barcode Scanning Motorola SE955
		Z	1D laser barcode EM1350 Newland
		2	2D Barcode Scanning Newland NLS-EM3096
		R	2D barcode Motorola soft decoding SE4710-LM000R
RFID	HF RFID	H	HF RFID 13.56Mhz
	LF RFID inside	4	134Khz FDX only read 3cm
		5	125KHZ read 3cm
	LF RFID outside	D	134.2Khz(FDX/HDX) read 5cm
		9	134.2Khz FDX read 10com
	UHF RFID	M	UHF RFID impinj chipset R2000(902 to 918MHZ- read 4m ) or 865MHZ to 68MHZ
		E	UHF RFID impinj chipset R2000 (865-868MHZ, 4m)
		6	Read distance 3m, 902MHz to 928M hz
		7	Read distance 2-3m, 865-868MHZ
Printer		Y	Thermal printer
Pistol Grip		C	With battery inside, for fast barcode touch
485 communication		8	Support 485 communication
Infrared communication		T	38KHZ, 940nm, comply DLT 645-2007 (DLT 645-1997)
Infrared temperature measurement		W	Infrared temperature measurement module

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