

Technical Doc. :	ST_PTSH-56_R010.docx
Equipment:	PTSH-56
Revision :	1.0
Date :	Sept 23, 2019



Model: PTSH-56 - 4 inch Android 7.0 Rugged Handheld

1. 4 inch android 7.0 rugged Handheld
2. RAM/ROM 2GB/16GB
3. Screen Resolution 800*480
4. 4G LTE/WIFI/GPS/BT/NFC
5. 1D/2D Barcode Reader
6. RFID LF 125KHz, UHF 900MHz
7. Docking Station

Physical Parameter

Size	152mm(L)x77mm(H)x29mm(W)
Weight	<500g
Display Screen	Color 4.0 inch QVGA imitative glass durable touch screen TFT-LCD, 650000 colors, 480*800 (QVGA size) The brightness of LED Backlight is adjustable
Expand Port	SIM card, , Micro SD (TF) Card
Communication Interface	USB2.0 Device,
Input Mode	Standard Stylus, Handwriting, touching input or keyboard input
Battery Capacity	Rechargeable Li-polymer Battery 3.7V 4000mAh Optional
Frequency	8 1W speaker
Key	21pcs soft silicon key

Performance Parameter

CPU	ARM Cortex-A53 64bit Quad-Core 1.3G
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RAM	2G RAM
Flash Rom	Standard 16G NAND Flash Storage Micro SD/TF port (Max up to 32G)
Data Communication	
WI-FI	Support IEEE802.11b/g/n protocol, it need effective wireless LAN signal cover
FDD-LTE	Uplink: 1920MHZ-1980MHZ; Downlink: 2110MHZ-2170MHZ Uplink: 1710MHZ-1785MHZ; Downlink: 1805MHZ-1880MHZ Uplink: 2496MHZ-2690MHZ; Downlink: 2496MHZ-2690MHZ
WCDMA/GSM	WCDMA: Uplink:1850MHZ-1910MHZ; Downlink: 1930MHZ-1990MHZ Uplink:880MHZ-915MHZ; Downlink: 925MHZ-960MHZ GSM: 850MHZ, Uplink:824MHZ-849MHZ; Downlink: 869MHZ-894MHZ 900MHZ, Uplink:880MHZ-915MHZ; Downlink: 925MHZ-960MHZ 1800MHZ, Uplink:1710MHZ-1785MHZ; Downlink: 1805MHZ-1880MHZ 1900MHZ ,Uplink:1850MHZ-1910MHZ; Downlink: 1930MHZ-1990MHZ
Bluetooth	Support Bluetooth 2.0+EDR/3.0+HS/4.1+HS, transmission distance is 5-10m
Operating Environment	
Operating Temperature	-20C to 50C
Storage Temperature	—25C to 70C
Enviroment Humidity	5%RH--95%RH(no condensation)
Drop Specifications	6 sides can bear impact from 1.5m drop to cement floor in the range of operating temperature
Roll Specifications	1000 times/0.5m, roll on 6 sides contact area
Sealed Environment	IP65
Development Enviroment	
Operating System	Android 7.0
SDK	Exclusive use software development kit
Supported Language	JAVA
Development Tool	Eclipse
A one-dimensional bar code collect	
One dimensional laser scanner	Symbol 955, HoneywellN4313,Mingde966
Resolution <	4Mil minimum width
Ambient Light	10000ft.candles(107640 lux)

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Scanning Speed	104(±)12/sec (bothway)
Scanning Angle	47o±35o(Standard) / 35o±3o(narrow angle)
Support Bar Code Type	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS
Two-dimensional bar code acquisition	
CMOS Scanner	HONEYWELL N3680 newland 3096
The Sensor Resolution	752(level)×480(vertical)pels(gray level)
Ambient Light	All dark 9000ft.candles/96900 lux
Focus element (VLD)	655nm ± 10nm
Support bar code type	PDF417, MicroPDF417, Composite, RSS, TLC-39, Datamatrix, QR code, Micro QR code, Aztec, MaxiCode; Postal Codes: US PostNet, US Planet, UK Postal, Australian Postal, JapanPostal Dutch Postal (KIX)3
RFID	
LF	125K; ISO11784/ISO11785 protocol
HF	13.56MHz; ISO14443A/B protocol
Camera	Hd 8 million pixels, with LED, automatic focusing
GPS	Support A-GPS