







Military Grade Rugged Android Smartphone

Slim, Lightweight with Integrated High-Accuracy GNSS

The ST454CL Military-grade Rugged Smartphone is compact in design and features a high-definition 4.0 inch Screen multi-touch panel that can be operated with gloves and wet hands, a Qualcomm Snapdragon Quad-core processor and Android 5.1 operating system. This IoT device also includes 1D scanning, 2D scanning, NFC, UHF, PSAM card, etc.

Waterproof and dustproof (IP68), and encompassing Corning Gorilla Glass, the ST454C has been tested to withstand a 1.5 metre drop and 300 times 1 meter tumbling test performance, whilst still being aesthetically pleasing and easy to handle.



Features

- Qualcomm Snapdragon processor Quad-Core 1.1 GHz
- 2GB RAM + 16GB ROM
- Android 5.1
- 4.0 inch WVGA, Resolution 800×480
- Industrial capacitive touch panel
- 8.0 Mega Pixel rear camera, auto focus, support LED fill light
- Removable 3.8V/4100mAh battery
- Micro USB 2.0, support OTG
- 4G / Bluetooth / Wi-Fi (2.4G) / GPS
- 1D barcode, 2D barcode, NFC, UHF
- Dimension: 170 x 73 x 20.5 mm (L x W x H)

Major Options

- 2D barcode scanner; reads 1D also (ST301T-TR and ST301X-TR)
- Long-range Bluetooth, ideal for connecting to Total Station controllers (ST372AP-TR and ST301X-TR)
- cameras, 4G LTE
- 3D back camera, back camera light (ST301X-TR)

Specifications





Model

Physical

Size

170 × 73 × 20.5 mm (length × width × height)

Weight

11 ounce/315g (including battery)

Module

ST454CL

IOT function (Barcode, RFID)

1D Scanning

Module

Honeywell N4313

Weight 11 ounce/315g (including battery) **Operating System** Android 5.1 4" high-res IPS, 800*400 DPI, 5 points-touch Display screen, Corning Gorilla Glass, LED backlight Li-polymer, 4100mAh. Uptime: 8 hours. Battery Standby time: 280 hours **Card Slots** 1 SIM, 2 PSAM, 1 Micro SD (Maximum 32G) Communication Micro USB 2.0, OTG Interface Networks 4, Wi-Fi, GPRS, Bluetooth, GPS **Notifications** Warning tone, Multi-colour LED, Vibration Keyboard On-screen keyboard and Enterprise keyboard Audio Microphone, Loudspeaker, Receiver Buttons 2 programmable buttons (F1, F2); 3 scanning buttons, 1 delete/back/enter/TAB/1/A button Power Adaptor Input: 100-240V, 50/60HZ 300mA. Output: 5V,

System

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Processor	Cortex-A7 Qualcomm Quad-core, 1.1GHz
Memory	2GB RAM/16GB ROM
Operating System	Android 5.1
Display	4" high-resolution IPS, 800*400 DPI, 5 points- touch screen; Corning Gorilla Glass

Mechanical & Environmental

2A

Mechanical & Environmental		
Operating Temp.	-4°F to 122°F/-20°C to 50°C	
Humidity	5% to 85% (non-condensation)	
Drop Specification	Multiple drops from 5 feet / 1.5 m height onto concrete ground	
Roll Specification	500 1.6 feet/0.5 m rolls	
Vibration	4g SPK Sine (5Hz to 2KHz); 0.04g2/Hz random (20Hz to 2KHz) 60 minutes per axle, 3 axles	
Thermal shock	-40°F to 140°F/-20°C to 60°C	
Electrostatic	+/- 10kv air discharge; +/-8kv contact electricity	
Ingress Protection	IP68	

Wireless Communication

wireless Communication	
WWAN	GSM/GPRS/WCDMA/CDMA/TD-SCDMA/TDD- LTE/FDD-LTE
Wi-Fi	IEEE 802.11b/g/n; Wi-Fi™ attestation; IPv4, Ipv6
Operating System	GPS + BDS
Bluetooth	Bluetooth Wideband, supporting HFPv1.6; Bluetooth v4.1 Low Energy (LE)

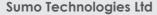
 $[\]ensuremath{^*}$ Specifications subject to change without notice.

1D Scanning Module	Honeywell N4313
Supported 1D barcodes	China Post (Hong Kong 2 of 5), Codabar, Code 11, Code 128, Code 32 Pharmaceutical (PARAF), Code
	39, Code 93, EAN/JAN-13, EAN/JAN-8, GS1 DataBar Expanded, GS1 DataBar Limited, GS1 DataBar Omnidirectional, GS1 Emulation, GS1- 128, Interleaved 2 of 5, ISBT 128, Matrix 2 of 5, MSI, NEC 2 of 5, Plessey Code, Postal Codes, Straight 2 of 5 IATA, Straight 2 of 5 Industrial, Telepen, Trioptic Code, UPC-A, UPC-A/EAN-13 with Extended coupon Code, UPC-E0
2D Scanning Module	Honeywell N3680
Supported 1D barcodes	Codabar, Code 11, Code 128, Code 2 of 5, Code 39, Code 93 and 93i, EAN/JAN-13, EAN/JAN 8, IATA Code 2 of 5, Interleaved 2 of 5, Matrix 2 of 5, MSI, GS1 Databar, UPC-A, UPC E, UPC-A/EAN-13 with Extended coupon Code, Coupon GS1 Code 32(PARAF), EAN-UCC Emulation, GS1 Data bar
Supported 2D barcodes	2D Stacked: Codablock A, Codablock F, DF417, MicroPDF417
	2D Matrix: Aztec Code, Data Matrix, MaxiCode, QR Code, Chinese Sensible(Han Xin) code
Camera	Rear camera: 8 MP, auto-focusing, supporting LED lighting and flashlight .
NFC	Operating frequency: 13.56MHz Protocol: Mifare Classic (MF1), NDEF, NfcV(15693), Ultralight (MF0), IsoDep (standard CPU MF3), IsoDep (CPU) Reading distance: 0-5cm (depending on the label and antenna)
RFID	Operating frequency: 840-960Mhz
	Support protocol: ISO18000-6C/EPC C1G2 Reading distance: 1.1m (depending on the label and antenna)
PSAM	Supports ISO7816 standard, 2 PSAM cards
Sensor	Light sensor, distance sensor, gravity acceleration sensor, geomagnetic transmission sensor, hall sensor (optional)

Others

Others	
Certification	CE/CCC/UN38.3/RoHS/IP68
Accessories	Charger/USB cable/ battery/wrist strap
Optional Accessories	Triple desktop charger/ triple adaptor/ battery





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