SUMO
Masters of Technology

Medical PDA with Temperature Measurement

Rugged Smartphone for clinical environments that can measure body temperature

Based upon the very popular ST455CL-MD, the new ST455CL-MD has been developed to provide one-step to identification, temperature measurement and data upload; whilst also providing the ability to generate and download. Like the ST455CL-MD our new model is designed and built specifically for use within the health and social care industry with rugged anti-bacterial material, internal 1D and 2D code, an RFID scanning module. As well as featuring Wi-Fi, GPRS, Bluetooth and 4G (dual sim) for uninterpretable mobile operation.

Features

- Non-contact, Infra-Red temperature measurement
- 5" high-resolution multi-touch screen
- 8MP rear camera
- Anti-microbial material
- IP65 rated
- Gorilla glass can withstand 30 falls on all surfaces from 1.5m
- 4G/LTE and dual Wi-Fi (2.4GHz and 5GHZ)
- 10h battery life (100h on standby)
- Option 1D/2D Barcode Scanner
- Optional UHF RFID
- Android 7.1
- MDM

Applications

- **Clinic or Hospital**
- **Healthcare Center**
- **Retirement Community**
- **Laboratory**
- **Community Health**
- **Veterinarian**

ST455CL-MDT

Specifications

System	
CPU	Cortex ARM A7, 1.3GHz Quad-core
RAM + ROM	2GB LPDDR3 RAM + 16GB EMMC ROM
Expansion	Supports up to 32 GB Micro SD card
OS Supported	Android 5.1

Physical Characteristics	
Dimensions	147mm x 78mm x 18mm
Weight	233g/8.22oz
Display	5.0 inch high-resolution (1280*720) Corning Gorilla Glass
Touch Screen	5-point touch panel
Battery	Li-ion, rechargeable, 4000mAh
Expansion Slots	Micro SD Card, 2GB – 32GB
USB	USB 2.0, OTG
Audio	Speaker, microphone; 3.5mm Jack
Camera	8MP autofocus rear camera with LED Light

Communication	
WWAN	**4G Dual Sim. GSM**: 850/900/1800/1900 **WCDMA:** B1/B2/B5/B8 **TDSDMA:** B34/B39 **LTE-TTD:** B38/B39/B40 **LTE-FDD**: B1/B3/B7/B8/B20/B38/B39/B40
WIFI	802.11a/b/g/n 2.4GHz + 5GHz seamless roaming.
Bluetooth	Bluetooth 4.0, BLE
RFID	UHF RFID (optional)
GPS	GPS/AGPS

Environment	
Sealing	IP65

Barcode	
Scan Engine	Honeywell 2D Scanner (optional)

NFC	
Protocol	ISO14443A/B, ISO15693, NFC-IP1, NFC-IP2, etc.
Chipset	M1 card (S50, S70), CPU card, NFC tags, etc.
Range	2-4cm

Temperature Measurement	
Site	Human forehead / object
Method	Non-contact / infrared
Distance	0~6cm
Time	≤1S
Range	Human body mode: 32 ~ 42.9 ℃；Object mode: 0-100℃
Resolution	0.01℃
Accuracy	Human body mode: 32 ~ 42 ℃ ±0.2℃，other range ±0.3℃；Object mode: ±1.0℃
Clinical Reusable	±0.3℃
Operating Environment.	Temperature 0 ~ 40 ℃, relative humidity ≤85% Rh, air pressure 60-110Kpa

SCAN ME