



Computer Hardware Design



Powerful Qualcomm Snapdragon will free your work

Qualcomm's Snapdragon MSM8916 processor is market-proven AP (Application Processor) which has Quad-Core with 1.4Ghz clockspeed. It is truly SoC (System on a Chip) having 4G LTE, Wireless LAN, Bluetooth, S-GPS and Camera bus interface.

Latest Google Android Lollipop is the heart of the system

CHD 8 runs on Google's latest Android 5.0.2 Lollipop Operating System and it is certified by Google CTS to support all Google official API. Any applications based on Google API can be maximized in terms of performance including any 3rd party MDM (Mobie Device Management) solution like SOTI & Wavelink Avalnche.

Wider & Brighter IPS display provides better visibility

CHD 8 adopts 5.0" IPS panel TFT-LCD with capacitive touch screen and it supports wide-viewing angle and daylight redability in order to maximize the best performance in the out-field. To support harsh environment, top of screen is protected Asahi Dragontrail glass for maximum durability.

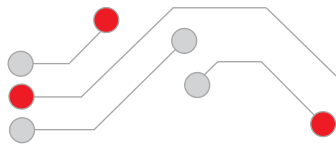
Frequently using 4 "HARD" keys towards field-work-forces

Most of Enterprise EDA in the market adopts capacitive-based touch button even for the most frequently used Home, Menu, Back button. Not every user prefer to use Stylus pen in the field, CHD 8 features with 4 hard keys : Home, Menu, Back button and plus user-programmable/assignable key, which is very essential for various field applications.

Powerful Wireless; 4G LTE & IEEE 802.11 a/b/g/n and versatile data-input funtions; 1D/2D, NFC & MSR

As of Enterprise mobility purposes, CHD 8 is completely tuned for Enterprise work-forces; smooth hand-over between WWAN and WLAN each other, seamless roaming among many routers & access points in the harsh working environment, because Enterprise users prior seamless connectivity to speed. Also, to provide various data input functions up on various customers' need, CHD 8 is built-in with latest 1D/2D imaging barcode scanner, NFC HF RFID 13.56Mhz & encrypted 3-track Magnetic Stripe Reader. Especially, MSR is an optional feature and it is free from any possible counterfeit and unauthorized data access thanks to data encryption technology. CHD 8 is truly hybrid because shape & design is following commercial smartphones but features are truly towards Enterprise users.

 Qualcomm	 1GB / 8GB	 ANDROID 5.0.2 LOLLIPOP	 WVGA 1280x768	 DAYLIGHT READABLE	 5" SCREEN CAPACITIVE	 4G LTE	 802.11 a/b/g/n
 NFC	 IMAGER	 8M REAR 2M FRONT	 BLUETOOTH	 Built-in-GPS	 3100mAh 4000mAh	 IP67	 1.5M(5ft)



CHD 8

smart and rugged mobile computer



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Specification

Physical characteristics

Dimensions with battery (mm):
156 x 82 x 21
156 x 82 x 22 (with MSR)
Weight with battery:
279 g
293 g (with MSR)

Environmental

Operating: -20°C to 60°C (-4°F to 140°F)
Storage: -40°C to 70°C (-40°F to 158°F)
Relative Humidity: Non-condensing, 95%
Rain & Dust Proof: IP67
Drop Specification: 1.5m (5 ft) per MIL-STD 810G at all operating temperature
Tumble Specification: 250cycle (500hit) @ 1m (3.3ft) tumble per IEC 60068-2-32
ESD: 15 kV air discharge, 8 kV contact discharge

Power

Standard Battery: 3,100mAh Li-ion rechargeable
Extended Battery: 4,000mAh Li-ion rechargeable

Operating System

Google Android 5.0.2 Lollipop
(CTS & GMS to be certified)

Micro-Processor

Qualcomm MSM8916 @ 1.4Ghz Quad-core

Memory and Storage

Memory: 1GB RAM / 2GB RAM (Optional)
ROM: 8GB / 16GB (Optional) NAND Flash
User-accessible micro-SD cards up to 32GB SDHC

Display

5.0 in, IPS panel, 1280 x 768 pixel (WVGA)
Asahi Dragontrail Glass, Daylight readable, Wide viewing angle, Capacitive touch, Anti-raindrop

Standard Communications

Full speed USB 2.0 from either cradle or USB direct sync cable
RS232C from cradle

Integrated Camera

8.0MP(Rear)/2.0MP(Front) color with LED flash

Keypad Options

4 hard keys (Home, Menu, Back & Programmable)

Sensors

Accelerometer, Ambient Light Sensor, Proximity Sensor.

Wireless WAN

EDGE/GPRS/GSM:850/900/1800/1900
WCDMA: 850/900/1900/1700/2100 MHz
LTE USA:FDD2, FDD4, FDD5, FDD13, FDD17

Wireless LAN

IEEE 802.11 a/b/g/n Data rates: 150 Mbps
Operating channels: 1 to 13 (2.4Ghz & 5Ghz)
Regulatory compliance: As per IEEE 802.11n
Security: WEP / WPA / WPA2 and more
Authentication: PEAP/MS-CHAPv2, EAP-TLS

Wireless PAN

Integrated Bluetooth Class II, Ver.4.0
Operating channels: 0 to 78 (2402-2480 Mhz)
Data Rates: 1, 2, 3 Mbps

Global Positioning System

12 channel integrated GPS: assisted via WAN carrier:
Network independent: accuracy within 3m

NFC (Near Field Communication)

P2P NFC with 1 SAM slot (13.56MHz HF RFID)
Supported Tag-Ics : MIFARE® 1k/4k/Plus, MIFARE UltraLight, MIFARE UltraLight C, MIFARE DESFire, MIFARE DESFire EV1, ISO 14443 A & B, ISO 15693 tags

Integrated Barcode Reader

1D/2D Imager : supporting all 1D/2D standard Symbology including GS1 Databar

LED Indicator and Scan Alert

Indicator: 2 x dual color LEDs on front:
1) Power, 2)Warning, 3)Scan reading
Scan Alert: Vibration

Audio Support

Supports VoIP, Built-in two microphone (Noise-cancelling), speaker, receiver and headset jack (3.5mm), Wireless Bluetooth headset support

Accessories

Standard accessories: AC/DC power adaptor & country plug, Capacitive Stylus pen & tether, Hand strap, Battery, LCD protection film, USB sync cable.
Optional accessories: Single-slot cradle, 4-slot Cradle, 4-slot Battery Charger

Regulatory Approvals and Compliance

Safety: EMC, UL, RF, LED approvals
Radio: FCC, CE, KCC Marks
Environmental: RoHS II & WEEE compliant

Standard accessories



Optional accessories

