

ANDROID

H-27

Android Enterprise Terminal



Highlights

- Rugged mobile computer with a fully integrated 1D laser or 2D imager barcode scanner
- Android 4.2.2 for familiar and convenient navigation
- Qualcomm® Snapdragon™ S4 MSM8960 Dual core Krait 1.5GHz CPU
- 4.3" brilliant color touchscreen display with Gorilla® Glass, anti-reflective coating and signature capture
- Communications: Bluetooth 4.0, Wi-Fi (802.11 a/b/g/n), WWAN (2.5G/3.5G), AGPS, NFC, USB and Infrared
- Rear facing 5.0 MP auto-focus digital camera, flash LED
- Memory: 8GB Flash NAND, DDR2 1GB SDRAM and microSD up to 32GB
- IP 65 rating against dust and moisture, survives multiple 5' drops to concrete
- Compact form factor: 3.03" x 5.79" x 0.75" (w x h x d) and 8.5 ounces (including battery)
- High capacity 3.7 2860mAh Lithium-Ion battery
- Two year warranty

 **OPTICON**

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Product Specifications

OPERATION

CPU: Qualcomm MSM8960 Dual core Krait 1.5GHz
OS: Android 4.2.2

MEMORY

EMMC: 8G
SDRAM: DDR2 1GB
EXPANSION: MicroSD up to 32GB

DISPLAY

TYPE: TFT LCD (350 nits), capacitive touch panel, color screen
SIZE: 4.3", 800 x 480 pixels
PROTECTION: Gorilla Glass v3
COATING: Anti reflective

OPERATING INDICATORS

VISUAL: 2 LEDs (red/green)
AUDIBLE: Vibrate

OPERATING KEYS

1 power key, 2 volume keys, 2 scan keys, 4 Android navigation keys

COMMUNICATION

BLUETOOTH: 4.0
WLAN: Wi-Fi, IEEE.802.11 a/b/g/n
WWAN: 2G (850/900/1800/1900), 3G (850, 900, 1700, 1900, 2100)
WWAN DATA: GPRS, EDGE, UMTS, HSPA+
ETHERNET: via USB-to-Ethernet adapter (supported USB-to-Ethernet chipsets AX8817x, AX88178, AX88178A, AX88772, RTL8150)
NFC: NFC-A (ISO14443-3A), NFC-B (ISO14443-3B), NFC-F (JIS 6319-4), isoDep (ISO 14443-4), NFC Forum Tag Types 1, 2, 3, 4, iSO18092, NFC-V (iSO15693), MiFARe Classic, MiFARe Ultralight, nDeF on MiFARe Classic
GPS: Integrated GPS and GLONASS
AUDIO: Speaker/ receiver /microphone/3.5 mm headset (CTIA)/Bluetooth (HSP, HFP, A2DP)
USB: Micro USB OTG, System connector with USB OTG and charging

SENSORS

Accelerometer, Magnetometer, Gyroscope, Photometer, Proximity

POWER

MAIN BATTERY: Lithium-Ion 3.7V 2860mAh (sold separately)

BACKUP BATTERY: Lithium Polymer 3.7V, 80mA for main battery hotswap

OPERATING TIME: 8 hours (LCD on, 3G on), standby time 325 hours

BATTERY CHARGING TIME: 2-2.5 hours

CHARGING TECHNOLOGY: Qualcomm Quickcharge 1.0

CAMERA

REAR FACING CAMERA: 5 MP, auto-focus, flash LED

LASER OPTICS

LIGHT SOURCE: 650 nm visible laser diode

SCAN RATE: 100 scans/sec

READING PITCH ANGLE: -35° to 0°, 0° to +35°

READING SKEW ANGLE: -50° to -8°, +8° to +50°

READING TILT ANGLE: -20° to 0°, 0° to +20°

CURVATURE: R>15 (EAN8), R>20 (EAN13)

MINIMUM PCS VALUE: 0.45

DEPTH OF FIELD (At PCS 0.9, Code 39):

39 mil (1.00 mm): 2.76 - 25.59 in (70 - 650 mm)

20 mil (0.5 mm): 1.97 - 16.54 in (50 - 420 mm)

10 mil (0.25 mm): 1.97 - 10.24 in (50 - 260 mm)

6 mil (0.15 mm): 1.97 - 5.91 in (50 - 150 mm)

5 mil (0.127 mm): 2.36 - 4.72 in (60 - 120 mm)

SUPPORTED SYBBOLOGIES LASER

BARCODE (1D): JAN/UPC/EAN incl. add on, Codabar/NW-7, Code 11, Code 39, Code 93, Code 128, GS1-128 (EAN-128), GS1 DataBar (RSS), IATA, ISBN, Industrial 2of5, Interleaved 2of5, Matrix 2of5, MSI/Plessey, Telepen

BARCODE (2D): Composite Codes, MicroPDF417, PDF417

BARCODE (POSTAL CODES): Chinese Post, Korean Postal Authority code

2D IMAGER OPTICS

LIGHT SOURCE: Aiming green LED, illumination LEDs

SCAN METHOD: CMOS area sensor, 752 x 480 pixels, gray scale

SCAN RATE: Up to 60 fps

IMAGE FORMAT: Windows Bitmap, jpeg, tiff

GRADULATION: 256, 16, 2

IMAGE OUTPUT MODE: 4 resolutions (full, 1/2, 1/3, 1/4), 2 ranges (horizontal, vertical)

READING PITCH ANGLE: -50° to 0°, 0° to +50°

READING SKEW ANGLE: -50° to 0°, 0° to +50°

READING TILT ANGLE: 360°

CURVATURE: R>16 mm (10-digit Codabar), R>20 mm (12-digit UPC)

MINIMUM RESOLUTION AT PCS 0.9: 7 mil (0.169 mm) at PDF417, 8 mil (0.212 mm) at QR Code and DataMatrix Minimum

PCS VALUE: 0.3

FIELD OF VIEW: Horizontal: 40.6°, Vertical: 26.4°

DEPTH OF FIELD (Code 39):

5 mil (0.127 mm) 3.35 - 4.92 in (85 - 125 mm)

10 mil (0.254 mm) 2.56 - 8.07 in (65 - 205 mm)

20 mil (0.508 mm) 2.36 - 11.61 in (60 - 295 mm)

DEPTH OF FIELD (At QR Code):

8.4 mil (0.212 mm) 3.54 - 4.53 in (90 - 115 mm)

15 mil (0.381 mm) 2.17 - 7.68 in (55 - 195 mm)

SUPPORTED SYBBOLOGIES 2D IMAGER

BARCODE (1D): UPC-A, UPC-A Add-on, UPC-E, UPC-E Add-on, EAN-13, EAN-13 Addon, EAN-8, EAN-8 Add-on, JAN-8, JAN-13, Code 39, Tri-Optic, Codabar (NW-7), Industrial 2 of 5, Interleaved 2 of 5, S-Code, IATA, Code 93, Code 128, MSI/Plessey, UK/Plessey, TELEPEN, Matrix 2of5, Code 11, GS1 DataBar, GS1 DataBar Limited, GS1 DataBar Expanded, Composite GS1-DataBar, Composite GS1-128, Composite EAN, Composite UPC

BARCODE (2D): PDF417, MicroPDF417, Codablock F, QR Code, Micro QR Code, DataMatrix (ECC 0 - 140 / ECC 200), MaxiCode (Modes 2 to 5), Aztec Code, Han Xin Code (Chinese Sensible Code)

BARCODE (POSTAL CODES): Chinese Post, Korean Postal Authority code

DURABILITY

TEMPERATURE:

Operation: 14 - 122 °F (-10 - 50 °C),

Storage: -4 - 158 °F (-20 - 70 °C) (without battery)

HUMIDITY: Operation: 5% - 95% (non-condensing)

DROP TEST: 5 ft (1.5 m) onto concrete surface

PROTECTION RATE: IP 65

PHYSICAL

DIMENSIONS (WXHXD): 3.03 x 5.79 x 0.75 in (77 x 147 x 19 mm)

WEIGHT BODY: Ca. 8.5 oz (244 g) (incl. battery)

COLOR: Black

ENCLOSED ITEMS

Power adapter, Quick Start Guide, Earphone, Micro USB cable

SOLD SEPARATELY

CRD-27 (Single bay cradle, charging and communication), Rechargeable 2860mAh battery, Silicone cover

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