

H-27

1D laser or 2D CMOS Imager

The H-27 Android mobile computer offers a compact, yet rugged design that is ideal for today's mobile workforce performing a variety of applications including inventory management, asset tracking, field service and more.



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
- IP65 rating against dust and moisture, survives multiple 1.5 m drops to concrete
- Compact form factor: 77 x 147 x 19 mm (W x H x D) and 244 grams (including battery)
- High capacity 3.7 2860mAh Lithium-Ion battery
- Two year warranty

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Product Specifications

Operation

CPU: Qualcomm MSM8960 Dual core
Krait 1.5GHz
O/S: Android 4.2.2

Memory

EMMC: 8 GB
SDRAM: DDR2 1GB
Expansion: MicroSD up to 32 GB

Display

Type: TFT LCD (350 nits), capacitive touch panel, color screen
Size: 4.3", 800 x 480 pixels. Protective Gorilla glass v3 Coating Anti reflective

Operating indicators

Visual: 2 LEDs (red/green)
Non-visual: Vibrate

Operating keys

Entry options: 1 power key, 2 volume keys, 2 scan keys, 4 Android navigation keys

Communication

Bluetooth: 4.0
W-LAN: Wi-Fi, IEEE, 802.11 a/b/g/n
Telecom: GPRS, EDGE, UMTS, HSPA+
Ethernet: via USB-to-Ethernet adapter (supported USB-to-Ethernet chipsets AX8817x, AX88178, AX8817A, AX88772, RTL8150)
NFC: nfcA (ISO14443-3A), nfcB (ISO14443-3B), nfcF (JIS 6319-4), iso-Dep (ISO14443-4, nFC Forum Tag Types 1, 2, 3, 4, iISO18092, nfcV (ISO15693),

Sensors

Accelerometer, Magnetometer, gyroscope, Photometer, Proximity

Power

Main battery: Lithium-Ion 3.7V 2860mAh
Backup battery: Lithium-Ion 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 camera: 5 MP, auto-focus, flash LED

Barcode Scanner Optics

Light source: 650 nm visible laser diode
Scan rate: 100 scans/seconds
Reading pitch angle: $\pm 35^\circ$
Reading skew angle: -50 to -8°, +8 to +50°
Reading tilt angle: $\pm 20^\circ$
Curvature: R>15 mm (EAN8), R>20 mm (EAN13)
Min. pcs value: 0.45
Depth of field at code 39: 70 - 650 mm (1.00 mm) / 2.76 - 25.59 in (39 mil), 50 - 420 (0.5 mm) / 1.97 - 16.54 in (20 mil), 50 - 260 mm (0.25 mm) / 1.97 - 10.24 in (10 mil), 50 - 150 (0.15 mm) / 1.97 - 5.91 in (6 mil), 60 - 120 mm (0.127 mm) / 2.36 - 4.72 in (5 mil)

Supported symbologies

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
Postal Code: Chinese Post, Korean Postal Authority code
2D code: Composite Codes, MicroPDF417, PDF417

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
Imager format: Windows Bitmap, JPEG
Gradulation: 256, 16, 2
Imager output mode: 4 resolutions (full, 1/2, 1/3, 1/4), 2 ranges (horizontal, vertical)
Reading pitch angle: $\pm 50^\circ$
Reading skew angle: $\pm 50^\circ$
Reading tilt angle: 360°
Curvature: R>16 mm (10-digit Codabar), R>20 mm (12-digit UPC)
Min. resolution at PCS 0.9: 0.169mm / 7 mil at PDF417, 0.212 mm / 8 mil at QR Code and DataMatrix min.
Min. pcs value: 0.3
Field of view: Horizontal 40.6°, Vertical 26.4°
Depth of field at code 39: 85 - 125 mm (0.127 mm) / 3.35 - 4.92 in (5 mil), 65 - 205 mm (0.254 mm) / 2.56 - 8.07 in (10 mil), 60 - 295 mm (0.508 mm) / 2.36 - 11.61 in (20 mil)

Depth of field at QR Code: 90 - 115 mm (0.212 mm) / 3.54 - 4.53 in (8.4 mil), 55 - 195 mm (0.381 mm) / 2.17 - 7.68 in (15 mil)

Supported symbologies

Barcode (1D): JAN/UPC/EAN incl. add on, Code 39, Tri-Optic, Codabar/NW-7, Code 11, Code 93, Code 128, GS1-128 (EAN-128), GS1 DataBar, GS1 DataBar Limited, GS1 DataBar Expanded, IATA, Industrial 2of5, interleaved 2of5, Matrix 2of5, MSI/Plessey, UK/Plessey Telepen, S-Code, Matrix 2of5
Postal Code: Chinese Post, Korean Postal Authority code
2D code: MicroPDF417, PDF417, Codablock F, QR Code, Micro QR Code, DataMatrix (ECC 200), MaxiCode (Modes 2 to 5), Aztec Code, Han Xin Code (Chinese Sensible Code), Passport MRZ (OCR-B)

Durability

Temperature in operation: -10 to 50 °C / 14 to 122 °F
Temperature in storage: -20 to 70 °C / -4 to 158 °F (without battery)
Humidity in operation: 5% to 95% (non-condensing)
Humidity in storage: 5% to 95% (non-condensing)
Drop test: 1.5m / 5 ft drop onto concrete surface
Protection rate: IP65

Physical

Dimensions (WxHxD): 77 x 147 x 19 mm / 3.03 x 5.79 x 0.75 in
Weight body: Ca. 244 g / 8.5 oz (inc. battery)
Color: Black

Regulatory & Safety

Product compliance: CE, RoHS, WEEE, IEC60825-1:2007 Class 2, LVD, SAR

Items

Enclosed: Rechargeable battery, Power adapter, Ear Phone, USB to DC cable, USB Cable, Quick start guide
Sold Separately: Rechargeable battery (2860mAh), CRD-27 (excl. power adapter & power cord), Power cord, Silicon Cover