H-28

2D CMOS Imager

The H-28 is a perfect balance of a smartphone and a terminal. This mobile computer is designed for complex tasks.

A product designed for the most complex tasks

The H-28 comes in two versions: a Wi-Fi/ Bluetooth version and a 4G Europe cellular version. Both come with fast and accurate performance when scanning. This is due to the powerful processor that is hidden under the high-tech 5" display. Even the most complex tasks are an easy job for this mobile computer.

Highlights

- Android 6.0.1
- 5" FHD touch screen
- Bluetooth 4.1 LE & NFC
- 4G LTE EU
- 16MP CMOS camera with autofocus
- Wi-Fi 802.11 r, fast roaming
- IP 67

H-28
Product Specifications

Operation
CPU: Qualcomm Snapdragon 617 A53 Octa-core
O/S: Android 6.0.1

Memory
EMMC: 16GB
RAM: LPDDR3 2GB
Expansion: MicroSD, Simcard(optional)

Display
Type: FHD, capacitive touch panel, color screen, Gorilla Glass.
Size: 5"

Operating indicators
Visual: 3 LEDs
Non-visual: Vibrate, buzzer

Operating keys
Entry options: 1 power key, 2 volume keys, 2 (programmable) scan keys, 2 function keys, 3 OS keys

Communication
Bluetooth: 4.1 LE
W-LAN: Wi-Fi, IEEE, 802.11 a/b/g/n/ac/r
Telecom: WCDMA, GSM, TDD LTE, FDD TLE
NFC: ISO14443-4 (type A & B), ISO15693, Mifare, Felica (ISO/IEC18092)
GPS: GPS/GLONASS

Sensors
Accelerometer, Light sensor, gyroscope, E-compass, Proximity

Power
Main battery: Lithium-Ion 3.7v 2960mAh (Standard), Lithium-Ion 3.7v 5920mAh (optional)
Backup battery: Rechargeable RTC battery, battery swap
Operating time (WWAN on, LCD on): Ca. 9 hours (standard), Ca. 18 hours (extended)
Charging technology: Qualcomm Quickcharge 2.0(USB only)

Camera
Rear facing camera: 16 MP, auto-focus, LED flash
Front facing camera: 5 MP

2D Imager optics
Light source: Aiming green LED, warm white illumination LED
Scan method: CMOS area sensor, 640 x 480 pixels, black and white
Scan rate: Up to 100 fps
Reading pitch angle: -65 to 0°, 0 to +65°
Reading skew angle: -65 to 0°, 0 to +65°
Reading tilt angle: 360°
Curvature: R>15 mm (EAN8), R>20 mm (EAN13)
Min. resolution at pcs 0.9: 0.1 mm / 4 mil
Min. pcs value: 0.9
Field of view: Horizontal 38°, Vertical 28.9°
Depth of field at code 39: : 52 - 126 mm / 2.05 - 4.96 in (0.127 mm / 5 mil), 46 - 246 mm / 1.81 - 9.68 in (0.254 mm / 10 mil), 60 - 466 mm / 2.36 - 18.35 in (0.508 mm / 20 mil)
Depth of field at QR code: 64 - 106 mm / 2.52 - 4.17 in (0.169mm / 6.7 mil), 30 - 234 mm / 1.18 - 9.21 in (0.381mm / 15 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, Industrial 2of5, Interleaved 2of5, ISBN-ISSN-ISMN, Matrix 2of5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey
Postal code: Chinese Post, Intelligent Mail Barcode, Korean Postal Authority code, POSTNET
2D code: Aztec Code, Aztec Runes, Chinese Sensible code, Codablock F, Composite codes, Data matrix (ECC200), Passport MRZ (OCR-B), maxi Code (mode 2-5), MicroPDF417, MicroQR Code, PDF417, QR Code

Durability
Temperature in operation: -20 to 50 °C / -4 to 122 °F
Temperature in storage: -30 to 60 °C / -22 to 140 °F (without battery)
Humidity in operation: 10% to 90% (non-condensing)
Humidity in storage: 10% to 90% (non-condensing)
Drop test: 1.5m / 5 ft drop onto concrete surface, MIL-STD 810G. 1.8m / 6 ft drop onto concrete surface, MIL-STD 810G with protective bumper
Protection rate: IP 67

Physical
Dimensions (WxHxD): 77 x 158 x 16.9 mm / 3.03 x 6.22 x 0.67 in
Weight body: Ca. 308 g / 10.4 oz (inc. battery)
Color: Black

Regulatory & Safety
Product compliance: CE, CB, FCC, NCC, BSMI(TBD), IEC62133, UN38.3, Ul2054, RoHS, WEEE, REACH

Items
Enclosed: Standard battery, USB adapter (QC2.0), hand strap, USB cable
Sold Separately: Extended battery, extended battery cover, protection bumper, stylus, holster, OptiCare comprehensive care for 2, 3 or 5 years
Cradle (charging and communication): USB or ethernet single charge cradle with cradle power adapter

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