H-31 & H-33

Android Mobile Computers







Highlights

- Rugged mobile computers with a fully integrated, high speed 2D imager barcode scanner
- Android 9 for familiar and convenient navigation
- Qualcomm SD450 A53 1.8 GHz Octa-core
- 5" brilliant color touchscreen display with Gorilla® Glass, anti-reflective coating and signature capture
- Two models available: H-31 Wi-Fi only and H-33 is Wi-Fi, 4G (WCDMA/GSM/LTE) with GPS
- Communications: both models support Bluetooth 4.2 LE, WLAN, Wi-Fi, NFC and USB
- Rear facing 16 MP auto-focus digital camera, LED flash
- IP67 rating against dust and moisture, survives multiple six foot drops to concrete (with protective bumper), MIL-STD 810G
- Memory: 64 GB EMMC, 4 GB LPDDR3 RAM and MicroSD
- Compact form factor: 3.11" x 6.22" x 0.82" (w x h x d) and 11.2 ounces
- User/field-replaceable battery packs (no special tool needed), supports hot-swap mode, standard and extended battery packs available
- Supports Qualcomm Quick-Charge 3.0
- Two year warranty



H-31 & H-33

Product Specifications

OPERATION

CPU: Qualcomm SDM450 A53 1.8Ghz, Octa-core OS: Android 9

MEMORY

EMMC: 64GB
RAM: LPDDR3 4GB
EXPANSION: MicroSD

DISPLAY

TYPE: FHD, capacitive multi touch panel, color screen, Gorilla Glass.

SIZE: 5"

BRIGHTNESS: 520 cd/m2 (nits) typical

OPERATING INDICATORS

VISUAL: 3 LEDs

NON-VISUAL: Vibrate, dual speakers (max 90dB)

OPERATING KEYS

ENTRY OPTIONS: 1 power key, 2 volume keys, 2 (programmable) scan keys, 2 function keys, 3 OS keys

COMMUNICATION

BLUETOOTH: 4.2 LE

WLAN: Wi-Fi, IEEE, 802.11 a/b/g/n/ac WAN (H-33): WCDMA, GSM, LTE

NFC: ISO14443-4 (type A & B Mifare, Felica) ISO15693 GPS: GPS/GLONASS/ Beidou/ QZSS (H-33 only)

SENSORS

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

POWER

MAIN BATTERY: Lithium-lon 3.7v 4000mAh (Standard), Lithium-lon 3.7v 5720mAh (optional) BACKUP BATTERY: Rechargeable RTC battery,

battery swap

CHARGING TECHNOLOGY: Qualcomm Quickcharge 3.0 (USB 2.0)

CAMERA

REAR FACING CAMERA: 16 MP, auto-focus, LED flash

2D IMAGER OPTICS

LIGHT SOURCE: Aiming green LED, warm white

illumination LED

SCAN METHOD: CMOS area sensor, 640 x 480

pixels, greyscal 10-bits 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: 0.2

FIELD OF VIEW: Horizontal 38°, Vertical 28.9°

DEPTH OF FIELD AT CODE 39:

5 mil (0.127 mm) 2.05 - 4.96 in (52 - 126 mm) 10 mil (0.254 mm) 1.81 - 9.68 in (46 - 246 mm) 20 mil (0.508 mm) 2.36 - 18.35 in (60 - 466 mm)

DEPTH OF FIELD AT QR CODE: 6.7 mil (0.169mm) 2.52 - 4.17 in (64 - 106 mm) 15 mil (0.381mm) 1.18 - 9.21 in (30 - 234 mm)

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

BARCODE (2D): 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

BARCODE (POSTAL CODES): Chinese Post, Intelligent Mail Barcode, Korean Postal Authority code, POSTNET

DURABILITY

TEMPERATURE:

Operation: -4 to 122 °F (-20 to 50 °C)

Storage: -22 to 140 °F (-30 to 60 °C) (without battery)

HUMIDITY:

Operation: 30% to 80% (non-condensing) Storage: 5% to 90% (non-condensing)

DROP TEST:

5 ft (1.5 m) onto concrete surface, MIL-STD 810G. 6 ft (1.8 m) onto concrete surface, MIL-STD 810G with protective bumper

PROTECTION RATE: IP 67

PHYSICAL

DIMENSIONS (WXHXD): 3.11 x 6.22 x 0.82 in

(79 x 158 x 20.8 mm)

WEIGHT BODY: Ca. 319 g / 10.8 oz (inc. battery)

COLOR: Black

REGULATORY AND SAFETY

PRODUCT COMPLIANCE: CE, CB, FCC, FCC, VCCI, TELEC RoHS, WEEE, REACH

ITEMS

ENCLOSED:

Standard battery, hand strap, USB C cable SOLD SEPARATELY: Extended battery, extended battery cover, USB adapter (QC3.0), protection bumper, pistol grip, stylus, holster, USB single charge cradle, cradle power adapter, multi cradle

