

H22

Rugged Mobile Device



GPRS/EDGE/3G/3.5G



A-GPS

MicroSD I/O

+ Features Overview

- GPRS/EDGE (quad-band 850/900/1800/1900), 3G UMTS (WCDMA band 1,II,V,VI), 3.5G UMTS (HSDPA 7.2M / HSUPA 5.76 M)
- 1D laser or 2D imager barcode scanner
- Numeric or QWERTY keyboard
- Integrated A-GPS, Wi-Fi and Bluetooth
- 3.2 mp auto-focus color camera
- Memory: 256MB RAM; 512MB ROM; microSD + HC
- Optional RFID
- Rugged design; compact form factor
- Large 3.7" high resolution display with touch screen and signature capture
- Sustains multiple 5 foot drops to concrete
- IP65 rating against dust and moisture
- Two year warranty

+ Product Specifications

H22_03122012

Operation

- CPU: Marvell PXA320 806MHz
- O/S: Microsoft® Windows Mobile® 6.5.3

Memory

- 256MB RAM
- 512MB ROM
- Expansion: User accessible microSD + HC

Display

- Type: Blaview VGA TFT LCD, 262k color, touch panel, backlit
- Size: 3.7", 480 x 640 pixels
- Mode: Portrait / Landscape

Operating indicators

- Visual: 1 LED (red/orange/green)
- Non-visual: Vibrate, Buzzer

Operating keys

- Entry options:
 - (alpha)Numeric or QWERTY keyboard
 - navigation key (scroll + select)
 - function keys (3 dedicated, 7 *fn* key enabled)
 - control keys
 - 1 power key
 - Windows Mobile key, *OK*
 - 2 phone keys
 - reset key
 - volume key
 - 4 scan keys, reconfigurable

Communication

- USB: OTG, client and host
- IrDA: Ver. 1.4, 2400 bps - 115.2 kbps (SIR), 576 kbps - 1.152 Mbps (MIR)
- Bluetooth: Ver. 2.1 + EDR, class 2
- W-LAN: WiFi, IEEE.802.11b/g/n
- Telecom: GPRS/EDGE (quad-band 850/900/1800/1900), 3G UMTS (WCDMA band 1,II,V,VI,VIII), 3.5G UMTS (HSDPA 7.2M / HSUPA 5.76 M)
- GPS: Integrated A-GPS
- Audio: Speaker/microphone (mono), 3.5mm headset connector (stereo)
- Extension: User accessible microSD I/O

Power

- Rechargeable battery: LI-ON 3.7V 3060mAh
- Backup battery: 18mAh for main battery hotswap
- Charging method: power supply (included), car adapter, and cradle (both sold separately)

Camera

- Color camera: 3.2 mp, auto-focus, LED flash

Barcode Laser Scanner Optics

- Light source: 650 nm visible laser diode
- Scan method: bi-directional scanning
- 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 mm (EAN8), R>20 mm (EAN13)
- Min. resolution at PCS 0.9: 0.127 mm / 5 mil
- Min. PCS value: 0.45
- Depth of field: At PCS 0.9, Code 39
 - 65 - 645 mm / 2.56 - 25.39 in (1.0 mm / 39 mil),
 - 45 - 415 mm / 1.77 - 16.34 in (0.5 mm / 20 mil),
 - 45 - 255 mm / 1.77 - 10.04 in (0.25 mm / 10 mil),
 - 45 - 145 mm / 1.77 - 5.71 in (0.15 mm / 6 mil),
 - 55 - 115 mm / 2.17 - 4.53 in (0.127 mm / 5 mil)

2D Imager Optics

- Light source: Aiming laser diode, illumination LEDs
- Scan method: CMOS area sensor, 900 x 512 pixels, gray scale
- Scan rate: Up to 80 fps, after auto-focus activation (100 ms after triggering)
- Image format: Bitmap, JPEG
- Reading pitch angle: -50 to 0°, 0 to +50°
- Reading skew angle: -50 to 0°, 0 to +50°
- Reading tilt angle: 360°
- Min. resolution at PCS 0.9: 0.127 mm / 5 mil
- Min. PCS value: 0.45
- Field of view: Horizontal 40°, Vertical 23°
- Depth of field: at Code 39
 - 45 - 1000 mm / 1.77 - 39.37in (0.127 mm / 5 mil),
 - 45 - 110 mm / 1.77 - 4.33in (0.127 mm / 5 mil),
 - 50 - 260 mm / 1.97 - 10.24in (0.254 mm / 10 mil),
 - 120 - 1000 mm / 4.72 - 39.37in (1.0 mm / 39 mil)
- Depth of field: at QR Code
 - 45 - 65 mm / 1.77 - 2.56 in (0.127 mm / 5 mil),
 - 45 - 250 mm / 1.77 - 9.84 in (0.381 mm / 15 mil)

RFID (optional)

- Frequency: 13.56 MHz
- Supported Standards: ISO 14443A/B, Mifare Classic 1k, Mifare Classic 4k, Mifare Ultralight, Mifare DESFire 2k, 4k and 8k, ISO 15693, I-Code, Felica
- Reading Distance: up to 70 mm / 2.75 in (depending on card/tag type)

Supported Symbolologies

- Barcode (1D): JAN/UPC/EAN incl. add on, Codabar/ NW-7, Code 39, Code 93, Code 128, GS1-128 (EAN-128), GS1 DataBar (RSS), IATA, Industrial 2of5, Interleaved 2of5, ISBN-ISMN-ISSN, Matrix 2of5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey
- Postal code: Chinese Post, Korean Postal Authority code
- 2D code: Aztec Code, Aztec Runes, Codablock F, Composite Codes, Data Matrix (ECC200/ECO-140), Maxi Code (mode 2~5), Micro QR Code, MicroPDF417, PDF417, QR code

Durability

- Temperature in operation: -10 to 50° C / 14 to 122° F
- Temperature in storage: -30 to 80° C / -22 to 176 °F; main battery storage: -20 to 60° C / -4 to 140° F
- Humidity in operation: up to 95% (non-condensing)
- Humidity in storage: up to 95% (non-condensing)
- Drop test: 5 foot drop onto concrete surface
- Protection rate: IP65

Physical

- Dimensions (w x h x d) 5.94 x 2.95 x 0.98 in
- Weight body: Ca. 340 g / 12 oz (incl. battery)
- Case: Black

Regulatory & Safety

- Product Compliance: CE, FCC, PTCRB, GCF, RoHS, CTIA/IEEE1725, IEC 60825-1 Class 2

Enclosed items

- USB AC adapter
- Standard battery Lithium-Ion 3060 mAh
- USB cable
- Hand strap
- Ear microphone
- Stylus + Cord

Sold separately

- CRD22 Cradle: USB OTG, Active Sync, charging
- CRD22-E4 Cradle: multi-cradle, 4 slots, Ethernet communication, charging
- Pistol grip

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