

OPTICON

Windows Mobile



GPRS/EDGE/3G/3.5G



AGPS

MicroSD I/O

H22

2D CMOS imager & Color camera



+ Related products



H22-1D

- Windows Mobile
- Barcode laser scanner & Color camera
- Bluetooth, W-LAN (WiFi), GPRS/EDGE/3G/3.5G, microSD I/O
- AGPS, IP 65



H21-2D

- Windows Mobile
- 2D CMOS imager & Color camera
- Bluetooth, W-LAN (WiFi), GPRS/EDGE/3G/3.5G, microSD I/O
- AGPS, IP 64



H19B

- Windows Mobile
- 2D CMOS imager
- Bluetooth, W-LAN (WiFi), GSM/GPRS/EDGE, miniSD I/O
- GPS, IP 54

Operation

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

Memory

- NAND Flash: 512 MB
- SDRAM: 256 MB
- Expansion: User accessible microSD + HC

Display

- Type: Blanview TFT LCD, 262k color display with touch panel
- 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 keyboard or QWERTY keyboard, navigation key (scroll + select), function keys (3 dedicated and 7 enabled by fn key), 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 AGPS
- Audio: Speaker/microphone (mono), 3.5mm headset connector (stereo)
- Extension: User accessible microSD I/O

Power

- Rechargeable battery: Lithium-Ion 3.7V 3060mAh
- Backup battery: 18mAh for main battery hotswap
- Charging method: Enclosed power supply, separate car charging adapter, separate cradle

Camera

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

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 - 39.37 in (0.127 mm / 5 mil)
45 - 110 mm / 1.77 - 4.33 in (0.127 mm / 5 mil),
50 - 260 mm / 1.97 - 10.24 in (0.254 mm / 10 mil),
120 - 1000 mm / 4.72 - 39.37 in (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 (0.381mm / 15 mil)

RFID Optics (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 (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)
- Humidity in operation: up to 95% (non-condensing)
- Humidity in storage: up to 95% (non-condensing)
- Drop test: 1.5 m / ft drop onto concrete surface
- Protection rate: IP65

Physical

- Dimensions (w x h x d):
151 x 75 x 25 mm / 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
- Car holder kit

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