

OPTICON

H21 1D Rugged PDA, WPAN/WLAN/WWAN/GPS, WM 6.5, NUM

Perfectly occupied digital assistant: CPU 528 MHz, 256MB RAM / 256 MB Flash, VGA, barcode scanner (1D laser), Alphanumeric keyboard, Windows Mobile 6.5, GSM/GPRS 3G, GPS, camera.

The device has an integrated 3.2 megapixel color camera with auto-focus and flash light. Use the 2.8" touch screen for signature writing and capture all information on the H21. The user accessible slot enables the user to expand the memory up to 4 GB. In situations where connectivity, communication and ease-of-use are important, this smart phone is the ideal tool. The H21 weighs only 235 gr. and is ergonomically shaped. The integrated 3060 mAh battery provides long operation time. **The H21 is especially suitable for the following solutions**



- Facility & Security
- Logistics & Courier Services
- Field Service
- Field Sales & Merchandising

Using Features

Operating System: CPU: Qualcomm MSM7225

528 MHz OS: Microsoft® Windows Mobile 6.5

RAM: 256 MB

Flash: 256 MB

Memory Expansion: User accessible microSD + H

C (up to 4 GB)

Display Type: Graphic Transflective TFT LCD with touch panel, 16-bit color with adjustable backlight Size: 2.8",

480 x 640 pixels Mode: Portrait / Landscape Operation

Indicators Visual: 2 LEDs (red /orange/green/blue) Non-visual: Vibrate, Buzzer

Operating keys Entry option: QWERTY keyboard, navigation key (scroll + select), function keys, control keys, 1 power key, 2 phone keys, 1 camera key, reset key,

volume key, 2 scan

Communication

USB: OTG, client and host IrDA: Ver. 1.3, 2400 bps - 115.2 kbps (SIR), 5

76 kbps - 1.152 Mbps (MIR) Bluetooth Ver. 2.1 + EDR, class 2

W-LAN: WiFi, IEEE.802.11b/g Telecom: 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) GPS: Integrated AGPS Audio: Speaker/microphone (mono), headset connector (stereo) Extens
ion: Use
r accessible microSD I/O Power Rechargeable
battery: Lithium-Ion
3.7V 3060mAh Backup battery: 6mAh Charging method: Enclosed power supply, separate c
ar chargi
ng adapter, separate cradle Camera Color camera:
3.2 megapixels, auto-foc
us, LED flash Barcode scanner Optics
Light source: 650 nm visible laser diode 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) Supported Symbologies Barcode (1D): JAN/UPC/EAN incl. add on, Codabar/ NW-7, Code 39, Code 93, GS1-128 (EAN-128), GS1 DataBar (RSS), IATA, Industrial 2 of 5, Interleaved 2 of 5, ISBN-ISMN-ISSN, Matrix 2 of 5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey
Postal code: Chinese Post, Korean Postal Authority code
2D code: Composite Codes, MicroPDF417, PDF417 Durability Temperature in operation: -10 to 50 °C / 14 to 122 °F Temperature in storage: -40 to 60 °C / -40 to 140 °F Humidity in operation: up to 90% (non-condensing) Humidity in storage: up to 90% (non-condensing) Drop test: 1.5 m drop onto concrete surface Protection rate: IP 64 Physical Dimensions (w x h x d): 67 x 135 x 22 mm / 2.64 x 5.31 x 0.87 in Weight body:
Ca. 235 g / 8.3 oz (incl. battery) Case: Black Regulatory & Safety Product compliance: CE, FCC, VCCI, PTCRB, GCF, RoHS, JIS-C-6802 Class 2, IEC 60825-1 Class 2, FDA CDRH Class II Enclosed items Power supply, Standard battery Lithium-Ion 3060 mAh, USB cable, Leather case, Hand strap, Ear microphone, Getting started disc, Stylus
So



Technical Description

Functionality & Operation

Keyboard	numeric
WLAN Features	IEEE 802.11 b/g
Touch-screen panel	Yes
Operating system	Windows Mobile 6.5
Data memory	256MB
Program memory	256MB
Display type	2,8" TFT LCD Transflective graphic 16 bit color with programmable backlight
Indicators	2 LED (red / orange / green / blue), vibration, buzzer
Communication interface	USB: OTG, client and host
Wireless communication	IrDA v1.3, Bluetooth®, WiFi
GPS navigation	a-GPS
Audio	built-in microphone and speaker, stereo headset jack
1D Barcode Symbolologies	Codabar, Code 128, Code 39, Code 93, EAN 13/UPCA, French Pharma Code, Industrial 2 of 5, Interleaved 2 of 5, Matrix 2 of 5, MSI
2D Code Symbolologies	all standard 2D-Codes
WPAN Features	Bluetooth® Class II v2.1 EDR

Optical

Bar code scanner	Laser
Resolution	480x640 px
Camera	3,2 MPix, with Autofocus, with LED flash
Scanning rate	100scan/s

Electrical

Main battery pack	Rechargeable Li-Ion battery 3060 mAh, 3,7V
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Mechanical

Color	black
Dimensions	Width: 22mm, Height: 67mm Length: 135mm
Weight	235g including battery

Environment

Shock resistance	drop from 1.5 m onto concrete surface
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