

H19B

Smartphone



The H19B is a high-performance quadband smartphone with an integrated 2D scan engine and multiple modes of wireless communication (GSM/GPRS/EDGE, WiFi, Bluetooth™) and GPS to meet the needs of your mobile workforce.

Product Features

Convergence for Mobile Business

The H19B delivers the convergence of a Windows Mobile™ based smartphone and Opticon's latest scan engine technology to allow for the seamless integration of barcode based data-capture into your mobile business.

Extending the Desktop beyond the Desk

Microsoft Windows Mobile™ 6.0 drives the H19B and this mobile extension of the familiar desktop environment allows your mobile workers to be productive almost instantly. Your workforce will have on-demand access to well known applications as well as extensions of custom enterprise applications regardless of physical location.

Network Access Regardless of Location

With quadband GSM/GPRS/EDGE, WiFi (802.11b/g) and Bluetooth™ support onboard, your workforce can easily connect to voice/data networks and peripheral devices for real-time remote data-capture, email and office productivity on the go, and other business applications that require network connectivity while away from the office.

GPS plus Larger Memory as Standard

In addition to the broad array of standard communication features, the H19B also provides integrated GPS capability using the SiRF Star III chip. When combined with the default ROM configuration of 512MB for high-volume data storage, there is a wide range of applications for which the H19B is the right choice.

Cabled

Mobile

Stationary

OEM

OPTICON
always scanning for new ID's

Specifications: H19B Smartphone

Electrical

Main battery:	Li-poly 4.2V, 1440 mAh
Extended battery:	Li-poly 4.2V, 2900 mAh
Operating time:	4 to 8 hours depending on usage and configuration
Charging time (full):	4 hours via mini-USB AC adapter

Optical

Light source:	4 x 630 nm LED (illumination), 2 x 527 nm LED (targeting)
Scan method:	CMOS, SXGA (1.3 million pixels)
Scan rate:	30 frames/sec
Pitch/Skew/Roll angle:	$\pm 35^\circ$ / -50 to -8° , 8 to 50° / $\pm 20^\circ$
Curvature:	R > 15 mm (EAN8), R > 20 mm (EAN13)
Min. Resolution:	0.127 mm / 5 mil (PCS 0.9)
Min. PCS value:	0.45
Depth of field at PCS 0.9 Code 39:	65 - 645 mm / 2.56 - 25.4 in (Res. 1.00 mm / 39mil)
20 mil)	45 - 415 mm / 1.77 - 16.3 in (Res. 0.50 mm /
10 mil)	45 - 255 mm / 1.77 - 10.0 in (Res. 0.25 mm /
6 mil)	45 - 145 mm / 1.77 - 5.71 in (Res. 0.15 mm /
0.127 mm / 5 mil)	55 - 115 mm / 2.17 - 4.52 in (Res.

Symbologies

1D:	JAN/UPC/EAN (WPC incl. add-on), Chinese Post, Codabar/NW-7, Code 11, Code 39, Code 93, Industrial 2of5, Interleaved 2of5, Post, Matrix 2of5, MSI/Telepen,
Code 128, IATA, ISBN-ISMN-ISSN, Korean Plessey-UK/Plessey, RSS, S-Code, Tri-Optic, Composite Codes	
2D:	MicroPDF417, PDF417, Data Matrix, QR Code, Maxi-Code

Functionality

Trigger mode:	Manual
OS:	Windows Mobile 6 Professional
CPU:	Samsung S3C2440 400MHz
Memory (RAM/ROM):	64 MB (SDRAM) / 512 MB (Flash)
Display:	2.8 in TFT LCD QVGA 65k color
Input:	Touch panel w/stylus, 18-key Numeric keyboard, 5-way direction keys, virtual keyboard, 2 scan buttons, microphone
Interface:	mini-SDIO (2GB max), mini-USB, 2.5 mm headphone/headset

Communication (standard configuration)

WLAN:	IEEE 802.11 b/g (WEP, TKIP, AES, 802.1x, WPA, WPA2)
WPAN:	Bluetooth Ver. 1.2, Class 2
WWAN:	Quadband GSM/GPRS/EDGE (class 10)
GPS:	embedded patch antenna, L1, NMEA protocol

Environmental

Operating temperature:	-10 to 50 °C / 14 to 122 °F
Storage temperature:	-20 to 60 °C / -4 to 140 °F
Operating humidity:	20 - 80 % (non-condensing)
Antistatic electricity:	15 kV (non-destructive)
Shock drop test:	1.2 m / 4 ft onto concrete surface
Ingress Protection:	IP54

Physical

Dimensions:	140.8 x 62.3 x 25.5 mm / 5.54 x 2.45 x 1.0 in
Weight:	250 g / 8.8 oz (including standard battery)

Regulatory

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Version:

- **USA:** Orangeburg, NY - Renton, WA
- **Japan:** Warabi City
- **The Netherlands:** Hoofddorp
- **France:** ISSY Les Moulineaux CEDEX
- **Germany:** Dietzenbach
- **Italy:** Castel Maggiore (BO)
- **Spain:** Valencia
- **Sweden:** Järfälla
- **United Kingdom:** Luton, Bedfordshire

- **Taiwan:** Taipei
- **P.R. China:** Shanghai
- **Australia:** Kariang

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always scanning for new ID's