

# H19A

Smartphone



The H19A is a high-performance quadband smartphone with an integrated 1D 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 H19A 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 H19A 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 H19A 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 H19A is the right choice.

Cabled

**Mobile**

Stationary

OEM

**OPTICON**  
always scanning for new ID's

# Specifications: H19A 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:	650 nm laser diode
Scan method:	vibrating mirror
Scan rate:	100 scans/sec
Pitch/Skew/Roll angle:	$\pm 35^\circ$ / $-50$ to $-8^\circ$ , $8$ to $50^\circ$ / $\pm 20^\circ$
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)
	45 - 415 mm / 1.77 - 16.3 in (Res. 0.50 mm / 20 mil)
	45 - 255 mm / 1.77 - 10.0 in (Res. 0.25 mm / 10 mil)
	45 - 145 mm / 1.77 - 5.71 in (Res. 0.15 mm / 6 mil)
	55 - 115 mm / 2.17 - 4.52 in (Res. 0.127 mm / 5 mil)

## Symbologies

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

## 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(2GBmax), mini-USB, 2.5mm 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

Laser compliance:	JIS-C-6802 Class 1, IEC 60825-1 Class 1, FDA CDRH Class 1
Product Compliance:	CE, FCC, RoHS

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Version:

- **USA:** Orangeburg, NY - Renton, WA  
- **Japan:** Warabi City  
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