

# H 19A

Smartphone



The H19A is a high-performance quadband PDA/smartphone hybrid with an integrated 1D scan engine and multiple modes of wireless communication (GSM/GPRS/EDGE, WiFi and 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 Independent of Location

With onboard quadband GSM/GPRS/EDGE, WiFi (802.11b/g) and Bluetooth™ support the standard configuration; 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.

### GPS plus Larger Memory as Standard

In addition to the broad array of standard communication features, the H19A also provides integrated GPS capability by the SiRF Star III chip. Multiplied by 512MB of ROM for high-volume data storage, there is an increasing range of applications for which the H19A is the right choice.

Cabled

**Wireless**

Stationary

OEM

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

# Specifications

## H 19A Smartphone

### Electrical specifications

Main battery pack: Rechargeable Lithium Ion Polymer 4.2 V 1440 mAh  
Main battery pack operating time: Talk time 4 hours, standby time 150 hours  
Battery charging time: 4 hours (full charge through AC adapter), 6 hours (USB cable connected to PC)

### Optical specifications

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 (res. 1.0 mm / 39 mil),  
45 - 415 mm / 1.77 - 16.34 in (res. 0.5 mm / 20 mil),  
45 - 255 mm / 1.77 - 10.04 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 - 4.53 in (res. 0.127 mm / 5 mil)

### Communication specifications

Interface: mini SDIO card slot, mini usb (client, ver 1.1)  
Interface Bluetooth: Ver. 1.2  
Interface W-LAN: WiFi, IEEE.802.11b/g  
Interface GSM/GPRS: Quad-band 850/900/1800/1900, GSM Class 12, EDGE Class 10  
Interface GPS: NMEA 0183, SiRF Star III, 57.6 kbps

### Identification

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

### Functionality

Memory FlashROM: 512 MB  
Memory RAM: 64 MB  
Memory Expansion: external mini SD  
Microprocessor: Samsung S3C2440A 400 Mhz  
Display: 2.8 in Transflective TFT LCD with backlight, 240 x 320 pixels, 16-bit color  
Indicators: 2 LEDs (red/orange/green/blue), speaker, vibrate  
Input devices: Touch panel with stylus, 2 scan keys, alphanumeric keypad, virtual keyboard, hand writing recognition, 5-way direction keys, hot keys, phone buttons  
O/S: Windows Mobile™ 6 Professional  
Programming: Pre-loaded software: Excel Mobile, Powerpoint Mobile, Word Mobile, Internet Explorer, ActiveSync, Internet sharing, Pocket MSN, Phone application, Opticon Scanner application, Accessories

### Environmental specifications

Temperature in operation: -10 to 50 °C / 14 to 122 °F  
Temperature in storage: -20 to 60 °C / -4 to 140 °F  
Humidity in operation: 20 - 80 % (non-condensing)  
Humidity in storage: 20 - 90 % (non-condensing)  
Shock drop test: 1.2 m / 4 ft drop onto concrete surface  
Protection (dust and moisture, IEC529): IP 54

### Physical specifications

Dimensions: 62.3 x 140.8 x 25.5 mm / 2.45 x 5.54 x 1.00 in  
Weight body: Ca. 195 g / 6.9 oz (incl. battery)

### Regulatory

Laser safety class: JIS-C-6802 Class 1, IEC 60825-1 Class 1, FDA CDRH Class I  
Product compliance: CE, FCC, VCCI, ROHS

### Enclosed items

AC adapter, Ear microphone, USB cable (client to host), Leather case, Neck strap, Belt clip, Handstrap, Lithium-Ion Polymer battery, Getting Started disc, Stylus

### Accessories

sold separately  
Cradle for charging & USB communication, Car charging adapter, Car mount holder, Headset