

8680i

Wearable Mini Mobile Computer

The 8680i is a compact, high-performance, hands-free mini mobile computer to help businesses improve workflow efficiency.

The 8680i Advanced model drives streamlined workflows onto a single device for many applications, replacing a scanner and mobile computer. The customizable user-facing display communicates workflow instructions, while the two-button interface enables users to navigate menus and confirm selections. The 8680i wearable mini mobile connects directly to the network application through Wi-Fi and the SDK. Converging common applications such as picking, packing, and sorting onto a single device offers improved ergonomics and reduced acquisition cost when replacing current wearable scanner plus mobile computer solutions.

A Standard version offers lightweight, ergonomic Bluetooth®-wearable scanning with clear communication of wireless connection, battery status, and scan results when paired with another device.

Configuration options help tailor the 8680i device to the environment. It is available as a two-finger ring or a glove (coming soon), and can use slim or extended batteries to suit the duty cycle, shift length, and size/weight priorities. With performance to drive effective workflows and durability to survive tough operating environments, the 8680i wearable mini mobile can add efficiency and effectiveness to the most common tasks.



The ergonomic 8680i Wearable Mini Mobile Computer delivers essential workflow information directly to the worker's line of sight and enables input to support common workflows with a single device. Eliminating wasted motion with always-at-hand, ergonomic scanning drives efficiency in high frequency workflows.

FEATURES & BENEFITS



Ergonomic Wearable for Workflow Efficiency

The 8680i wearable mini mobile is designed to speed frequent scanning tasks, leaving hands free to do the job needed.



Reduced Acquisition and Operations Costs

Advanced version offers customizable line-of-sight screen, Wi-Fi, and SDK for application development, enabling the 8680i device to support streamlined workflows as a standalone device, replacing scanner + mobile computer alternatives.



Customizable to Fit Application

Accessories to the scanner module enable ring or glove form factor; extended or slim batteries tailor size/weight to duty cycle needs; Standard or Advanced versions to fit workflow needs.



Built Rugged for the Real World

Engineered for 2,000 0.5 meter (1.6 feet) tumbles, the 8680i wearable mini mobile is built to endure rugged work environments.



Honeywell Connected

Workflow analytics to manage battery population lifecycle, ensuring uninterrupted full-shift operation; simple deployment of setting and firmware updates.

8680i Wearable Mini Mobile Computer Technical Specifications

MECHANICAL

Dimensions (L x W x H):

Slim Battery Version: 81 mm x 56 mm x 31.3 mm
(3.2 in x 2.2 in x 1.2 in)

Extended Battery Version: 81 mm x 56 mm x 35 mm
(3.2 in x 2.2 in x 1.4 in)

Weight:

Triggered Ring with Slim Battery: 151 g (5.3 oz)

Triggered Ring with Extended Battery: 168 g (5.9 oz)

Scan Performance:

Scan Pattern: Omni-directional area imager

Motion Tolerance: Up to 584 cm (230 in)/second

Symbol Contrast: 20% minimum reflectance

Pitch: ±45°

Skew: ±60°

Warranty: Two-year factory warranty (Note: Battery warranty is one year.)

TYPICAL PERFORMANCE*

Symbology/X-Dim	Typical Range*
10 mil Code 39	65 mm to 544 mm (2.6 in to 21.4 in)
20 mil Code 39	49 mm to 812 mm (1.9 in to 32 in)
10 mil DataMatrix	113 mm to 275 mm (4.4 in to 10.8 in)
6.7 mil PDF417	120 mm to 225 mm (4.7 in to 8.9 in)
100% UPC	44 mm to 552 mm (1.7 in to 21.7 in)

ENVIRONMENTAL

Operating Temperature: -20°C to 50°C (-4°F to 122°F)

Storage Temperature: -20°C to 60°C (-4°F to 140°F)

Humidity: 0% to 95% relative humidity (non-condensing)

Drop: 30 1.5 m (4.9 ft) drops to concrete

Tumble: 2,000 0.5 meter (1.6 ft) tumbles

Environmental Sealing: IP54

Light Levels: 0 to 100,000 lux

ESD: ±20 kV air discharge, ±10 kV contact discharge

WIRELESS

Radio Range:

- 2.4 GHz to 2.5 GHz (ISM Band) Adaptive Frequency Hopping Bluetooth v. 4.1: Class 1; 100 m (330 ft) line of sight; NFC communications to simplify pairing
- Advanced: Bluetooth above plus Wi-Fi 802.11 a/b/g/n/ac

Battery: 3.6 V, 1200 mAh (slim), 2160 mAh (extended)

Number of Scans:

Slim Battery Version: 3,000 over 8-hour shift

Extended Battery Version: 8,000 over 10-hour shift

Expected Charge Time: 4 hours

*Performance may be impacted by barcode quality and environmental conditions

For a complete listing of all compliance approvals and certifications, please visit www.honeywellaidc.com/compliance.

For a complete listing of all supported barcode symbologies, please visit www.honeywellaidc.com/symbologies.

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