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 (and field-reconfigurable) with two-finger ring or back-of-hand glove-mount options, 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 AND BENEFITS

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

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.

Field-reconfigurable accessories to the device 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.

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

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

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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.)

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 m (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:

Standard and Advanced Model Bluetooth: 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 Model Wi-Fi: Bluetooth as noted plus Wi-Fi 802.11 a/b/g/n/ac, 2.4 and 5 GHz

Security Standards: WPA, WPA2, WEP, WPA2 EAP (TLS, TTLS, PEAP GTC, and PEAP MSCHAPv2)

Connection: Connection, Auto-reconnect, Intra Profile connection (roaming), Hidden and Broadcast SSIDs

Soft Roaming: Simple and learned, across bands (all combinations of 2.4 GHz and 5 GHz), DFS Channels, and 802.11 modes

Opportunistic Key Caching (OKC)

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

GLOVE CHARACTERISTICS:

Strap glove securely locates 8680i on back of hand for optimum dexterity, ergonomics, and user comfort

Highly durable design for long lifespan, reduced consumable costs

Compatible with bare hand or conventional glove for comfort and user safety

One size; highly adjustable at index finger, palm, and wrist

Left- and right-hand versions

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 Data Matrix	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)

*Performance may be impacted by barcode quality and environmental conditions.

GLOVE SPECIFICATIONS

Laundering/Storage: Machine wash cold (rated for 24 cycles), temperatures up to 49°C (120°F); air dry

Trigger: 2.5 MM activation cycles

Glove Attach/Detach: 625 cycles

WARNINGS

Extreme caution should be used around moving machinery.

Laundering gloves that have been in contact with toxic or corrosive chemicals may result in a chemic al reaction, including fumes that could cause personal injury, serious illness, or death.

THE FUTURE IS WHAT WE MAKE IT

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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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