

Product profile

CN51

Mobile Computer



MULTI OS

O/S VERSATILITY

Supports Microsoft® Windows Embedded Handheld 6.5 and Android™ 4.1 Operating Systems for flexible application support and migration*



DISPLAY

Large 4" brilliant WVGA multi-touch display allows for more graphical user interface, display-centric applications



RUGGED

Withstands multiple 1.5m (5ft) drops to concrete across the operating temperature range and an IP64 seal rating against rain and dust



SCANNING

Features best-in-class motion tolerance, and support for omnidirectional 1D & 2D barcode scanning



FLEXIBLE NETWORK

Features WAN radio options with voice and data support including UMTS and Flexible Network UMTS/CDMA, PTT, as well as 802.11 a/b/g/n, Bluetooth, and GPS with GLONASS support



BATTERY

Industry-leading performance that lasts a full shift and beyond, enhanced by smart battery technology



PROCESSOR

Equipped with a power-efficient 1.5GHz dual core multi-engine Texas Instruments OMAP4 processor architecture, with 1GB RAM and 16GB Flash memory

When business depends on mobile workers being nimble, empowered and well informed, having flexible, multi-function technology tools in their hands is always a smart idea.

The Intermec CN51 mobile computer offers unparalleled versatility allowing the choice of Windows® or Android™ operating systems on a single device coupled with a power-packed 1.5GHz dual core, multi-engine processor design with 1GB RAM, and 16GB Flash for the highest degree of future-proofing capability.

Designed for a superior user experience, the CN51's large, multi-touch, outdoor-readable screen provides ample room for application viewing with less scrolling and greater productivity, as well as more space for capturing more legible signatures. It's also equipped with state-of-the-art smart battery technology, delivering life that lasts through a full shift and beyond without interruption to replace or recharge to get the job done.

The CN51's high performance imagers provide optimal barcode scanning capabilities even in low light scanning environments with unmatched motion tolerance and snappy scanning to eliminate costly delays and user frustration during scan-intensive applications.

The 5 megapixel color camera combined with Intermec's cutting-edge image processing technologies deliver advanced capability beyond reading barcodes. Mobile Document

Imaging (MDI) and Remote Deposit Capture (RDC) provide a fast and reliable way to convert full-size paper documents or check payments into electronic files while out on the road, transmitting directly from the point of capture to the back-office workflow.

Enterprises with large, geographically-dispersed workforces need adaptable network coverage. The CN51 answers the call with its voice-capable Flexible Network™ Radio (in North America), allowing the same device to operate on either CDMA or UMTS wireless networks. Depending on which network provides the best geographic coverage or the lowest cost, the CN51 can be switched on-the-fly, should coverage needs change.

Industry leading Software and Services solutions like Intermec's CloneNGo offer breakthrough device provisioning that makes it easy to replicate a master configuration across an unlimited number of devices to get up and running quickly. Intermec SmartSystems™ Management Console also monitors key sub-systems including scanning, communications, and device health, to prevent issues before they impact operations.

Intermec's Medallion Advanced and Support Services help protect your investment by reducing unexpected operational impacts of network communication issues or minimizing device downtime due to accidental breakage.

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by Honeywell

Physical Characteristics

Dimensions with battery: L X W X D:

164 x 74 x 28 mm (base of unit) 32 mm (top of unit)

(6.45 x 2.93 x 1.09-1.26 in)

Weight with battery: 350 g (12.3 oz)

Environmental

Operating Temp: -10° C to +50° C (+14° F to +122° F)

Storage Temp: -20° C to +70° C (-4° F to +158° F)

Charging Temp: +5° C to +35° C (+41° F to +95° F)

Relative Humidity: Non-condensing, 95%

Rain & Dust Resistance: IP64

Tumble Spec: 1,000 - 0.5 m (1.6 ft) tumbles at room temperature

Drop Spec: 26 drops from 1.5m (5 ft) to concrete across the operating temperature range per MIL-STD 810G

Electrostatic Discharge: +/- 15kV air discharge, +/- 8kV direct discharge

Power

Smart Battery Pack: 3.7V, 3900 mAh; Batteries are IEEE 1725 compliant, Li-Ion, removable, rechargeable.

Operating System

Microsoft Windows Embedded Handheld v6.5 or Android v4.1*

Microprocessor

Texas Instruments 1.5 GHz OMAP 4470 dual core, multi-engine processor architecture

Memory and Storage

Memory: 1 GB RAM

ROM: 16 GB Flash

Customer-accessible micro-SD slot for removable memory cards up to 32 GB

Display

- 10.16 cm (4.0 in), 480 x 800 pixel (WVGA) TFT-LCD display
- LCD supports 24 bpp color depth
- LED backlight
- Ambient light sensor
- Resistive multi-touch touch panel

Standard Communications

USB - High Speed 2.0 Host, USB - High Speed 2.0 Client

Software Applications & Components

Device Management:

Intermec SmartSystems™ provides a single, integrated environment for hands-free deployment and management of devices on-site or remote. Also compatible with leading third-party data and device management products.

ScanNGo for easy barcode based enterprise-wide device provisioning. It can be used to download device management software from Intermec ISVs.

CloneNGo, a peer-to-peer device management enables simple device cloning, eliminating the need to use a management console for device provisioning.

Application Development: Intermec Developer Library www.intermec.com/dev

Imaging Solutions: VIN scanning, Reusable Container Serial Number Scanning, Remote Deposit Capture, License Plate Verification, Mobile Document Imaging, Shipment Address Verification, etc.

Device Health Monitoring: On-board monitoring of key sub-systems including scanning, communications and battery life; Remote access requires SmartSystem Management option

Web Browsing: Intermec HTML5 Browser

*For the Android OS version, limited configurations available, please consult your sales representative

Data Management

Skynax® Mobile Communications

Integrated Radios

Wireless WAN Options

UMTS / HSPA+ (Voice & Data); Worldwide except Americas, Australia and New Zealand

UMTS/HSPA Frequencies: 900, 2100 MHz

Max Speeds (Network Dependent): Uplink - 5.76 Mbps Downlink - 14.4 Mbps

GSM/GPRS/EDGE Frequencies: 900, 1800 MHz

Max Speeds (Network Dependent): Uplink - 384 Kbps Downlink - 384 Kbps

Flexible Network™ (Voice & Data); Americas, Australia and New Zealand (Can be switched between the UMTS and CDMA radio networks)

UMTS/HSPA+

UMTS Frequencies: 800, 850, 900, 1900, 2100 MHz

GSM/GPRS/EDGE Frequencies: 850, 900, 1800, 1900 MHz

Max Speeds (Network Dependent): Uplink - 5.76 Mbps Downlink - 14.4 Mbps

CDMA/EV-DO Rev A

Dual Band CDMA2000 Bands: BC0 & BC1 (800/1900 MHz)

Max Speeds (Network Dependent): Uplink - 1.8 Mbps Downlink - 3.1 Mbps

Wireless LAN: IEEE®802.11 a/b/g/n on devices without Wireless WAN radio; IEEE®802.11 b/g/n on cellular devices

Security: WiFi Certified for WPA and WPA2, WAPI Certified

Authentication: 802.1x

Cisco Compatibility: CCXv4

Encryption: WEP (64 or 128 bit), AES, TKIP

Wireless PAN: Integrated Bluetooth® Power Class 1.5 Version 4 BLE

Global Positioning System (with WAN Radio option)
12 channel Integrated GPS; Network independent autonomous mode; supports assisted operation via XTRA®, CP E911

- GPS dedicated AT commands
- Protocol: NMEA-0183 V2.3
- Tracking Sensitivity: better than -158 dBm
- GLONASS support

Sensor Technology

Accelerometer: Embedded accelerometer enables automatic or application-specific features such as screen rotation, drop detection or system suspend.

Audio Support

Supports VoIP / Speech recognition / Push-to-talk applications; Speaker and front panel microphone for handset audio communication and audio recording; Wireless Bluetooth headset support.

Integrated Scanner Options

EA30 high performance motion-tolerant 2D Imager; (up to 500 in/s) white LED illumination; red laser aimer and framer optimized for all lighting conditions. Capable of scanning all common 1D and 2D barcodes; 1D as small as 4 mils; 2D as small as 6.6 mils. Refer to User's Manual for depth of field performance.

EA31 high performance motion-tolerant 2D Imager; (up to 400 in/s) white LED illumination. Capable of scanning all common 1D and 2D bar codes; 1D as small as 4 mils; 2D as small as 6.6 mils. Refer to User's Manual for depth of field performance.

Integrated Camera Option

5 Megapixel auto focus color camera with LED flash

Keypad Options

(27 Key) Numeric or (43 Key) QWERTY with backlit keypad

Intermec Global Services Support

www.intermec.com --> Support --> Knowledge Central

Accessories

Supports all CN50 charging and docking accessories as well as FlexDock modular docking system, vehicle dock, vehicle holder, snap on adaptors, removable scan handle, and magnetic stripe reader.

Regulatory Compliance and Approvals:

1015CP01, 1015CP01S, 1015CP01U

Safety: cULus Listed, Demko, BSMI

EMC: Class B- FCC/ICES/EN, EAC, CCC

Radio: FCC w/HAC, Industry Canada, CE, NCC, OFCA, IDA, SDPPI, NTC, ETA, SRRC, SIRIM, COFETEL, TELEC, ANATEL, TNZ, RCM, CONATEL, MOC (66 countries total).

Environmental: EU Directives - WEEE; RoHS; Batteries & Accumulators; Packaging & Waste Packaging



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Docks and Modules

Accessory Name	Part Number	Description
4-Bay Multi-Dock, Ethernet 	871-032-101	Charge and transfer data for up to 4 devices with Ethernet interface. Requires AC adapter (851-082-205 everywhere except EMEA; 851-095-131 is required for use in EMEA) and country specific power cord.
4-Bay Multi-Dock, Charge Only 	871-032-002	Charge up to 4 devices. Requires AC adapter (851-082-205 everywhere except EMEA; 851-095-131 is required for use in EMEA) and country specific power cord.
Single Dock 	871-033-011	USB Host and Client Support with bay for charging a spare battery pack. (8.9"L x 4.5"W x 2"T) Requires AC adapter (851-061-502) and country-specific power cord. Optional: Single Dock Ethernet Module (871-025-101).
Single Dock Ethernet Module 	871-238-001	Ethernet Module interfaces with USB Host connector on Single Dock, (871-033-001). (1.5"L x 2.5"W x 1"T).
Vehicle Holder 	805-664-001	Non-Powered vehicle holder for hands-free communications. Holder can be used with or without vehicle power adapter. Requires mount (805-611-001).
Vehicle Dock Mounting Kit 	805-611-001	Allows for mounting of Vehicle Holder (805-664-001) in route vehicle applications. Consists of one 4 3/4" adjustable pivot arm with two 1 1/2" stainless steel balls and assembly hardware. Due to wide range of possible applications, this kit doesn't include hardware for securing mount to vehicle. Requires holder (805-664-001).
Snap-on Adapter, MSR, CN50 Series 	850-573-001	Attaches to the heel of CN50 Series devices and provides magnetic stripe reader.
Snap-on Adapter, RS232/ DEX, CN50 Series 	850-578-001	Attaches to the heel of CN50 Series devices and provides RS232 communications via DB9M connector. Must order cables, including DEX cable 236-194-001, separately.

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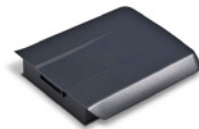
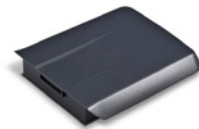
Docks and Modules (cont'd)

Accessory Name	Part Number	Description
Snap-on Adapter, USB, CN50 Series	850-581-001	Attaches to the heel of CN50 Series devices and provides USB Host and Client communications via HDB15M connector. Requires USB cable VE011-2018 (Client) and/or VE011-2016 (Host). Must order cables separately.
Desktop Adapter, USB, CN50 Series	852-073-001	Desktop adapter with Micro-AB USB port provides USB Host and Client connectivity for CN50 and CN51, and charging (via USB) for CN51. Must order cables and power adapters separately.



Batteries and Chargers

Accessory Name	Part Number	Description
Battery Pack, CN50	318-039-001	Spare or replacement battery pack for CN50 (one pack included with each mobile computer), 3900 mAh, 3.7 V Li-Ion Prismatic Cell. Provides 14.4 watt hours.
Battery Pack, CN51	318-052-001	Spare or replacement battery pack for CN51 (one pack included with each mobile computer), 3920 mAh, 3.7 V, Li-Ion Prismatic Cell. Provides 14.5 watt hours.
Quad Battery Charger	852-068-001	Simultaneously charge up to 4 batteries. Requires AC adapter (851-061-502) and country specific power cord.
AC Adapter for Multi-Dock	851-082-205; 851-095-131 is required for use in EMEA	AC adapter for multi-docks (871-032-101) and (871-032-002). Not for Quad Battery Charger (852-068-001) Requires country specific power cord (page 3).
AC Adapter for Quad Battery Charger and Single Dock	851-061-502	AC adapter for quad charger (852-068-001) and single dock (871-033-001). Not to be used for the "Ethernet" multi-dock (871-032-101) and the "charge only" multi-dock (871-032-002) Requires country specific power cord (page 3).



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Batteries and Chargers (cont'd)

Accessory Name	Part Number	Description
AC Power Adapter	851-093-201	Desktop AC power and communication adapter with USB port, enabling desktop charging and data transfer. Requires country specific power cord (page 3).
Vehicle Power Adapter	852-070-011	Vehicle 12V-24V adapter for charging on the go. Can be used as a heel clip on CN50 Series devices or it can be permanently mounted to the bottom of the vehicle holder.

Power Cords

Accessory Name	Part Number	Description
AC Power Cord	321-470-001 321-500-001 071918 1-974027-025 1-974028-025 1-974029-020 1-974030-025 321-471-002 321-501-002 321-502-002	AC Power Cord, Switzerland AC Power Cord, Japan AC Power Cord, China RoHS AC Power Cord, Europe RoHS AC Power Cord, US RoHS AC Power Cord, UK RoHS AC Power Cord, Australia RoHS AC Power Cord, Italy RoHS AC Power Cord, Denmark RoHS AC Power Cord, India/S Africa RoHS

Data Cables

Accessory Name	Part Number	Description
USB Data Cable	236-209-001	USB-A to USB Micro-B Plug (2 meters) Connects the desktop adapter (851-093-001) to PC USB port enabling quick data transfer.
USB Data Cable	Product Links	Micro USB (Male) to Standard USB (Female) For connecting an accessory such as a memory stick. See Digi-key # H11576-ND

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Data Cables (cont'd)

Accessory Name	Part Number	Description
DB9 to DEX Cable 	236-194-001	For use with RS232/DEX Adapter (850-578-001). Includes thumb screws for secure attachment.
Cable, Single USB Host	VE011-2016	For use with USB Snap-on Adapter (850-581-001) to USB-A Female receptacle for connectivity to USB Host peripherals. Includes thumb screws for secure attachment.
Cable, Single USB Client	VE011-2018	For use with USB Snap-on Adapter (850-581-001) to provide USB Client (ActiveSync) connection to host PC. Includes thumb screws for secure attachment.

Handles and Holsters

Accessory Name	Part Number	Description
Scan Handle, CN51 	805-679-001	Snaps easily on or off CN51. Ergonomic handle which angles mobile computer to enable viewing while scanning. Not compatible with CN50, Vehicle Docks or Vehicle Holder.
Belt Holster, CN50 Series 	815-066-001	Belt holster for CN50 Series devices without Scan Handle.
Holster, CN50 Series 	815-089-001	Holster, CN50 Series devices without Scan Handle
Holster, CN51 w/Scan Handle 	815-090-001	Holster, CN51 with Scan Handle

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Replacement Parts

Accessory Name	Part Number	Description
Kit – Handstrap, CN50	203-899-001	Handstrap replacement for CN50 (5 Pack)
Kit – Handstrap, CN51	213-008-001	Handstrap replacement for CN51 (5 Pack)
Kit – Handstrap, Stretch-Limiter, CN51	213-024-001	Handstrap replacement for CN51 (5 Pack)
Kit – Stylus Tethered, CN50	203-900-001	Stylus tethered replacement for CN50 (5 pack)
Kit – Stylus Tethered, CN51	213-025-001	Stylus tethered replacement for CN51 (5 Pack)
Kit – Screen Protector, CN50	346-069-104	Clear plastic LCD overlays for CN50. Same as CK3. (10 Pack)
Kit – Screen Protector, CN51	346-085-001	Clear plastic LCD overlays for CN51 (10 Pack)

FlexDock Supplies

Accessory Name	Part Number	Description
 front view	DX4A1555510	Accommodates four mobile computers. Includes power supply, North American Power Cord. Features 100Base-T Ethernet connectivity; provides 2 – RJ45 jacks for upstream connections and downstream “daisy-chain” connections of up to 10 docks.
 back view	DX4A1555500	Accommodates four mobile computers. Includes power supply. Order power cord separately. Features 100Base-T Ethernet connectivity; provides 2 – RJ45 jacks for upstream connections and downstream “daisy-chain” connections of up to 10 docks. Country specific power cords must be ordered separately.
	DX4A2555510	Accommodates four mobile computers – CHARGE ONLY. Includes power supply and North American Power Cord.
	DX4A2555500	Accommodates four mobile computers – CHARGE ONLY. Includes power supply. Country specific power cords must be ordered separately.
	203-918-001	Supports (1) mobile computer when snapped into a bay of base unit.