

Intermec

Product Profile



- Highly configurable, offering terminal emulation, browser or custom client applications
- Based on industry standard platform Microsoft® Windows® CE .NET
- Powerful Intel® XScale™ processor
- Color or mono display
- Integrated imaging and laser scanner options
- Standard 802.11b/g radio with choices of wireless security protocols
- Advanced ergonomic design for comfort

CK30 HANDHELD COMPUTER

The Intermec® CK30 mobile data collection terminal continues the tradition of delivering on Intermec's promise of rugged, reliable computing that will position your enterprise for the future with a combination of best-in-class features and functionality, such as thoughtful ergonomic design and integrated imaging options. With an unparalleled capability to perform legacy applications, the CK30 gives your enterprise investment insurance because it is the ideal bridge between the technologies you're using today and what you will need tomorrow.

The CK30 delivers the right blend of features and performance with the Microsoft® Windows® CE .NET operating system, designed to provide the optimum combination of real time operation, tools support and standard connectivity available today for battery driven, mobile data collection devices.

The CE .NET operating system minimizes memory requirements, reduces complexity and allows the application developer to completely customize

the user interface that is appropriate or desirable. CE .NET also supports mainstream application development tools for starting from scratch or upgrading existing applications. For client applications, the forward-looking .NET Compact Framework and Visual Studio .NET development tools will minimize any modifications between different .NET devices that might otherwise be required, including the Intermec® 700 Series Pocket PC mobile computer.

With CE .NET, Intermec has added features to the CK30 that enhance mobile data collection such as a simplified menu system tailored for key-based devices, display icons to provide intuitive, graphic-based status information to the operator and a data server for editing, filtering and routing to save programming time.

The Intel® XScale™ processor, running up to 400 MHz, provides more than enough power to drive the bright color display, a range of peripherals, repetitive scanning and wireless network traffic. It delivers the level of response time and

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throughput required for real time, mission-critical applications in warehousing, distribution, manufacturing operations and retail in-store management.

Because of the many configurations available, you can tailor the CK30 to your usage plans to support a wide range of applications. Three distinct keypad options – ranging from the simplified 42 key to a full 52 key alphanumeric keyboard – offer layouts for applications that range from shipping and receiving, put-away, picking, and cycle counting for the warehouse floor to price verification, stock management, and returns in the retail storefront. The CK30 applies superior technology and thoughtful design to all of these scan-intensive applications.

The device offers new linear imagers that deliver reliability and ideal scanning capabilities for arm's length scanning applications. Users are also able to select laser scanners for either standard range or long-range applications. Additionally, an area imager option also supports 2D symbologies, and users can attach tethered scanners for additional ergonomic flexibility.



An optional user-installable and removable pistol grip handle is ideal for highly repetitive scanning.



The CK30 batch model readily fits into a single or 4-bay communication dock with USB, RS232 or Ethernet host connectivity.

Position your enterprise for growth by selecting the 64MB RAM/64MB Flash model with a bright color display for the highest level of application flexibility. Or, choose less memory and a high contrast mono display for very thin clients or terminal emulation to reduce your initial investment. Additional configuration alternatives include Bluetooth™ for the convenience and flexibility of wireless peripherals such as wearable label printers.

Because the CK30 can run Intermec TE2000 as well as third party terminal emulation clients, it enables unparalleled portability of legacy applications for mix-and-match operability with existing TE networks. In addition, the CK30 offers investment protection because it can run existing Intermec 2400 family applications with only a re-compile. The CK30 is an attractive upgrade platform not only for the many legacy C++ applications from the 2400 Family, but also from other Intermec or competitive products.

Web-based applications can easily be implemented either through Intermec's text-based dcBrowser™ or the bundled lock-down browsers based on Pocket Internet Explorer or IE6.



An optional protective rubber boot extends durability in extreme environments.

The CK30's Wi-Fi® certified 802.11b/g radios, including a CCX (Cisco) Program certification**, insure consistent performance by providing the best available wireless network throughput and reliability. For off-line applications, the CK30 batch model readily fits into a single or 4-bay communication dock with USB, RS232 or Ethernet host connectivity.

Security features of the CK30 are second to none with support for traditional WEP and the new Wi-Fi WPA standard, as well as full 802.1x compliance including the Windows standard EAP-TLS and PEAP, EAP-TTLS and the compatibility with many existing networks with LEAP support. Government users can select the FIPS security standard, also available to commercial users for increased security.

The user-tested ergonomic design of the CK30 has rendered a lightweight and uncommonly well-balanced device that reduces stress and fatigue during extended work sessions. Its sculpted back case is shaped to comfortably

accommodate any hand size. An optional user-installable and removable pistol grip handle is ideal for highly repetitive scanning situations or accommodating user preference.

An additional design feature of the CK30 includes a high capacity lithium-ion battery "back" directly integrated into the shape of the computer, so users can not only expect at least a full shift of usage without having to change the battery, but also can avoid the complications of a battery door. Intermec power management software ensures the longest possible battery life between charges. For user convenience, CK30 batteries can be removed and charged separately, or the CK30 itself can simply be dropped into charge-only docks – or even re-charged while placed in communication docks.

The CK30 can be factory configured for English and all Western European languages, or for display of Asian fonts including Chinese, Japanese, Thai and Korean.



A choice of a bright color display or high contrast mono display to suit various use requirements.



Three distinct keypad options ranging from the simplified 42-key to a full 52-key alphanumeric offer layouts for a range of applications.



Physical Description

The CK30 is a rugged handheld mobile data collection computer featuring an embedded Microsoft® Windows® CE .NET operating system and an Intel™ XScale™ PXA255 processor. It is available in three discrete models.

Physical Characteristics

Length: 20.8 cm (8.2 in.)

Height: 3.3 cm (1.3 in.) at finger grip; 4.1 cm (1.6 in.) at base

Width at grip: 7.1 cm (2.8 in.)

Weight: 490 g (17.3 oz), including battery, radio and scanner

Hardware

Standard: Up to 64 MB RAM and 64 MB non-volatile Flash

Microprocessor: Intel XScale PXA255; 200 or 400 MHz

Interfaces: Secure Digital (SD) card slot, user accessible. Options for Bluetooth™ and Ethernet 10/100 base T docking (batch model)

Display: 160 x 160 pixel backlight, scratch-resistant, non-glare display. Monochrome or color

Keypads: Elastomeric keypad with options for simplified numeric/function and full alphanumeric layouts (42, 50 and 52-key versions)

Operating system

Microsoft Windows CE .NET 4.2

Software

Terminal Emulation: VT/ANSI, 5250, 3270.

Supports Intermec TE2000 and third party solutions, RDP/Remote Terminal Services

Development Environments: Embedded Visual C++ 4.0, .NET Compact Framework (VB .NET and C#).

Browser support: Embedded browser tailored to device features with lockdown, based on Internet Explorer 6 (model C) or Pocket IE (model B). Also text-based browser option.

Software Development Kit: Supports device-specific features and bar code scanning

Programmers Software Kit (PSK): For Intermec 2400 Family upward compatibility

Bar Code Scanning Options

Integrated 1D linear imager, standard and advanced long-range laser; and 2D area imager

Supports tethered 10-pin Intermec scanners (1550C, 1551E, 1553 and others)

Supports all popular 1D and 2D symbologies including: Code 39, I 2 of 5, S 2 of 5, Matrix 2 of 5, Code 128, Code 93, Code 93i, Codabar, Codablock, MSI, Plessey, UPC, EAN/EAN128, ISBT128, Code 11, RSS, Telepen, PDF417, Micro-PDF417, Macro-PDF417, Maxicode, Datamatrix, QR Code.

Integrated radio

Data Rates: Up to 54 Mbps per 802.11g; 11 Mbps per 802.11b

Standards Compliant:

IEEE 802.11g (2.4 Ghz.- OFDM)

IEEE 802.11b (2.4 GHz - DSSS)

Radio Power: 50 mW

Security: WEP, WPA, 802.1x (EAP-TLS, TTLS**, LEAP**, PEAP)

Certifications: Wi-Fi, WPA, Cisco CCX Program**

Device Management

Centralized remote support capability; Configures, updates and maintains single devices or entire populations; Real-time or batch, wired or wireless; Based on Wavelink Avalanche™ with Intermec's value added utilities

Localization

Keypad overlays for Western European languages; Optional character sets for English/W. European, Chinese (Traditional, Simplified), Japanese, Korean and Thai

Power

Battery Type: Lithium-Ion 2200 mAh, 7.2V with 10 min. backup

Battery Life: 8 or more hours at typical usage level

Environment

Operating Temperature: 0° to 50°C (32° to 122°F)

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

Humidity: 10 to 90% non-condensing

Electrostatic Discharge: 6KV contact, 12KV air

Dirt and dust: resistance: IP50

Drop Survival: Multiple 1.2m (4 ft.) drops to steel or concrete

Accessories**Communications and charging dock:**

Single bay communications cradle with serial/USB/Ethernet.

4-slot communications dock with serial/Ethernet.

Mobile cradle: Vehicle mount (non-powered).

Chargers: 4-slot battery re-charger; 4-slot terminal charge-only dock.

Cables: 9-pin serial adapter

User Accessories: Pistol grip handle; holster; hand strap; wrist strap; protective case, protective boot, swiveling belt clip

Regulatory Approvals

UL Listed, UL 60950 and C22.2 No. 60950, TÜV Rheinland GS, EN 60950 and EN 60825-1, Mexico, NYCE Certified NOM 19, FCC Part 15, Canada, ICES-003 Class B, EN 55022 / CISPR 22, Class B, EN 55024. Compliant with all European directives, CE marked.

Models

CK30A: Batch configurations with mono display, 32MB RAM/32MB Flash, Intermec CE "Standard" version, 200 MHz XScale processor

CK30B: Wireless configurations with mono display, 32MB RAM/32MB Flash, Intermec CE "Standard" version, 200 MHz XScale processor

CK30C: Wireless configurations with color display, 64MB RAM/64MB Flash, Intermec CE "Premium" version, 400 MHz XScale processor

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**Not available at first production

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