Intermec

Product
Profile

- Lightweight, ergonomic design allows for single-handed operation

- Choices of integrated bar code scanner or imager

- Large 160 x 160 display for flexibility in application design

- Customize with a flexible rapid development tool

- Linux® based open source operating system

- Powerful 67 MHz processor to support large look-up tables or data storage

- Choice of data communication docks

Companies of all sizes can now realize the benefits of automatic data collection with the CK1, a powerful and flexible batch data collection terminal for retail, light industrial, and medical/pharmaceutical applications requiring small-sized ergonomics at an economical price. With choices of simplified programming tools or pre-loaded applications, linear imager or bar code scanner, along with large memory and a crisp display, Intermec's CK1 can benefit the bottom line through increased employee productivity and inventory accuracy.

The CK1 offers features and functionality found in terminals much larger and more costly. With an ergonomic keyboard and a pocket-sized form factor, the CK1 allows for easy single-handed operation when it is demanded. An optional removable pistol grip handle is available for scan intensive applications.
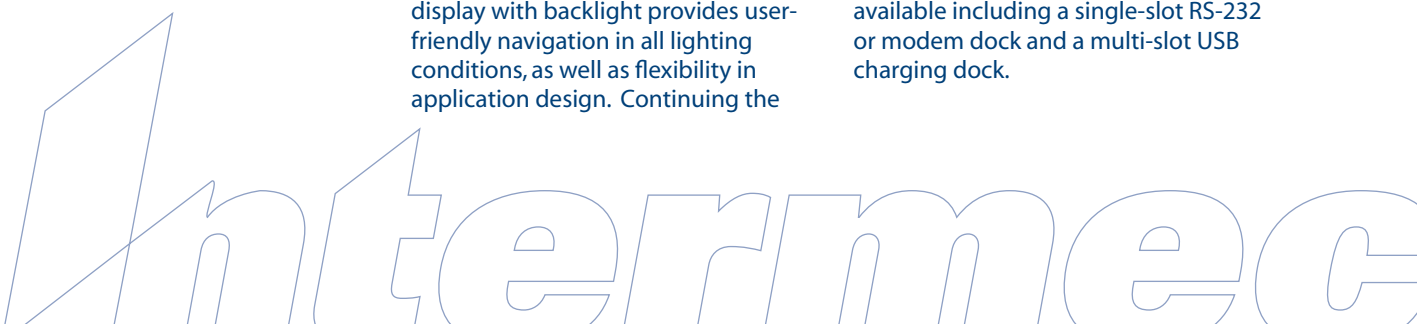
The CK1 has a choice of bar code input options: an integrated laser scanner, or a highly responsive linear imager, offering safe user interaction and aggressive decoding performance. The large, scratch-resistant 160 x 160 pixel display with backlight provides user-friendly navigation in all lighting conditions, as well as flexibility in application design. Continuing the Intermec legacy of rugged construction, the CK1 withstands multiple 1.2-meter (4-ft) drops to a hard surface.

Users will appreciate the simplicity of pre-written batch applications, powerful rapid application development tools or extensive SDK for flexible application choices offered by the CK1. It combines a Linux® based operating system and Linux® programming tools to provide a powerful and flexible open source platform for rich end-user applications with multi-tasking capabilities. Use CK1 right out of the box with a host of pre-written programs for various applications, or for powerful and rapid application development, a Windows® based rapid development tool can be purchased that requires no programming experience.

Intermec's CK1 has a powerful ARM 7, 67 MHz processor with 16MB SDRAM and 9 MB Flash to support large look-up tables or data storage. A replaceable Lithium-Ion battery supports extended rigorous use and a fast 3-hour recharge.

Numerous docking options are available including a single-slot RS-232 or modem dock and a multi-slot USB charging dock.

Physical Description
The ergonomic, pocket-sized CK1 is a fully functional Linux based computer for efficient, automated batch data collection. With large display, and choice of integrated bar code scanner or linear imager, the CK1 is ideal for parcel pickup and delivery, light industrial, and retail inventory management.

Physical Characteristics
Length: 190 mm (7.2")
Height: 36 mm (1.4")
Width: 72 mm (2.7")
Depth: N/A
Weight: 250 g (8.0 oz.) including battery

Power
Supply: 900 mAh (3.6 V) rechargeable Lithium Ion (Li-Ion) battery pack
Battery Life: Extended shift (12 hour)
Power Management: Auto-suspend
AC Adapter/Recharging: 3-4 hour recharge time

Environment
Operating Temperature:
-10° to 60° C (14° to 140° F)
Storage Temperature:
-20° to 70° C (-4° to 158° F)
Recharging Temperature:
0° to 50° C (32° to 122° F)
Humidity: 0 to 95% relative humidity (non-condensing)
Rain and Dust Resistance:
Designed to IP42
Drop Survival: Designed for multiple 1.2 m (4-ft) drops to concrete

Hardware
Memory: 16 MB SDRAM
Non-volatile Flash Memory: 9 MB
Microprocessor: 67 MHz ARM 7 Processor
Operating System: Embedded Linux Operating System, EsFia uCLinux Version 2.4

Display: Monochrome, anti-glare LCD display capable of configurable graphics and supporting up to 16 lines by 20 characters (160 x 160 pixels) with auto-off EL backlighting and scratch resistance surface.
Keyboard: 29 hard top keys including single Enter/Scan button, Numeric keys, with shift alpha, 4 navigation keys and 4 function keys
Beeper: User programmable volume, pitch and duration
LED: Tri-state software programmable LED to indicate good/bad read/communication

Software
Development Environments:
C application development under Red Hat Linux v8 or later, Windows 98, 2000, XP

Software Development Kit (SDK)

Rapid Development Tool Kit for application program development

International Support
English/Western European languages Japanese, Traditional Chinese (Big 5), Chinese Simplified, Thai (future)

Connectivity
TCP/IP over PPP using the following transports: RS232 direct single dock, USB multi dock, RS232 modem or *Bluetooth™.

TCP/IP over PPP GPRS using either a Bluetooth or tethered GPRS mobile phone.

X-Modem, Y-Modem and Z-Modem communication protocols using either RS232 direct single dock, USB multi dock, RS232 modem or Bluetooth.

Device Management
Device Manager supports update of device application and system software, simplifying configuration and limiting manual configuration.

Security
Administrative password protection optional

Bar Code Symbologies
Code 39 Standard and Full ASCII, Codabar, UPC/EAN, UCC/EAN128, Interleaved 2 of 5, Standard 2 of 5, Code 93, Code 128,

Characters/Fonts
Font 1: Courier 6 x 8, 20 lines, 26 columns
Font 2: Courier 8 x 16, 10 lines, 20 columns

Bar Code Scanning Module Options
Integrated Linear Imager

Integrated Standard Range Visible Laser (650 nM)

Scanning Performance
Scan rate: Linear Imager – 270 scans/second
Scan rate: Visible Laser – 39 scans/second

Wireless PAN
Integrated Bluetooth™ compatible module

Accessories
Communication/Charge Dock:
Single RS-232, V90 Modem
Multi-Dock: Four Cavities (Daisy Chain) USB

Hand Strap (Standard)

Scan Handle

Regulatory Approvals
Electrical: CE Compliance
Emissions: FCC Part 15 – Class A

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