

Product profile

CK32

Intrinsically Safe Mobile Computer



- Designed from inception to meet the most stringent, global certifications - UL, ATEX, IECEX
- Safest choice for workers in the chemical, oil and gas, and pharmaceutical industries
- Complements existing hazardous-certified and standard products allowing companies to standardize on one vendor or one form factor
- Supported by localized Intermec and Partner Service and Support Centers situated around the globe

The Intermec CK32 Intrinsically Safe (CK32IS) mobile computer carries the most extensive list of global hazardous environmental ratings of any rugged mobile computer in the world - UL (Underwriter's Laboratory), ATEX (European Atmospheres Explosibles Directives) and IECEX (International Electrotechnical Commission) - making it the safest choice for workers in the chemical, oil and gas, and pharmaceutical industries.

The CK32IS meets or exceeds the most stringent requirements, not only for gases, vapors and liquids, but also for dusts, fibers and even, in certain regions, underground mining applications.

The highly durable construction of the CK32IS reflects the operational reality of these environments: breakage in a hazardous location is more than a matter of downtime and inconvenience; it's potentially lethal. The rugged CK32IS has achieved an IP67 sealing and 5 foot drop spec, and is the only mobile computer to achieve Zone 0 certification, which designates "double fault" safety in environments in which flammable gases are always present under normal operating conditions.

The CK32IS provides the optimum combination of real time operation, tools support and standard connectivity by incorporating all the leading industrial mobile computing technologies - Microsoft® Windows Mobile® operating system, 802.11 b/g, Bluetooth®, VoIP support, integrated scanning, USB and Ethernet.

The intelligent design of the CK32IS also allows users to easily install or remove scan handles and to replace batteries within a hazardous environment.

The CK32IS is complemented by the full Intermec family of rugged ADC devices for the enterprise, as well as additional mobile computers for hazardous environments. This allows customers to simply pick the appropriate form factor and certifications ratings for their specific application needs.

The CK32IS supports all the leading industry standards and development tools provided within Intermec's product offerings: SmartSystems™, Wavelink Avalanche Remote Device Management, Cisco® Compatible Extensions (CCX), Wi-Fi®, .NET, Java and the Intermec Developer Library (IDL). This commitment

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allows customers to further maximize their investments by providing a strategy for ongoing, industry-leading technology updates, as well as support for fast application development and deployment. With the backing of Intermec's global service and support network for all products including the CK32IS, customers can confidently implement a long term, reliable solution across multiple operational environments and take advantage of the efficiencies of less product training, fewer product platforms, and simplified support and service.

Physical Description

The CK32IS is a rugged, intrinsically safe handheld mobile data collection computer, designed from inception to meet the most stringent global hazardous location requirements. It features the Windows Mobile 5.0 operating system and an Intel™ XScale™ PXA270 processor.

Physical Characteristics

Length: 240 mm (9.45 in)
Height: 51 mm (2.02 in) at grip area
Width at grip: 71 mm (2.8 in)
Weight: 1.08 kg (38 oz)

Hardware

Microprocessor: Intel XScale PXA270 Processor
Memory: 128 MB DRAM, 64 MB non-volatile Flash
Memory/Storage extensions: 512MB embedded SD Flash Memory Card
Display: 240 x 320 (1/4 QVGA) backlit transfective display with 3.5" diagonal supporting 16-bit color depth (65K colors) and resistive panel touch screen. Tethered stylus included.
Keypad: 42-key and 56 key with Standard, VT/ANSI, 3270/5250 Overlay Configurations

Operating System

Microsoft® Windows Mobile 5.0

Software

Terminal Emulation: Supports Intermec TE2000 and third party VT/ANSI, IBM 5250/ 3270.

Browser support: Internet Explorer Mobile

Software Development Kit: Intermec Development Library (IDL). Supports device specific features and bar code scanning.

Bar Code Scanning

Integrated Linear Imager

Standard Communications

Ethernet
 USB Client
 Bluetooth®
 802.11 b/g

Wireless Certifications

Wi-Fi
 WPA2
 Cisco Compatible Extensions CCX v3

Device Management

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

Audio System

All audio paths are present to support: interactive VoIP, walkie talkie, digital recording, AV playback. Microphone support for voice communications and speech recognition applications. Voice quality speaker with volume control and speaker capable of reproducing voice and WAV files.

Power

Battery Type: Lithium-Ion, 7.5V, 2400 mAh; User replaceable in hazardous environments

Environment

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

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

Relative humidity: 5 - 95% (non-condensing)

Environmental protection: IP67

Drop Survival: Multiple 5' (1.52 m) drops to ¼ inch steel plate bonded to a concrete slab

Vibration and shock protection: Tested to MIL-PRF-28800F standards

Model AC114-slot battery charger

Communications Adapter Model AN1: Required for USB and Ethernet.

User Accessories: Pistol grip handle; carrying strap; hand strap; user replaceable touch panel protection cover, AB6 spare battery, battery eliminator

Regulatory Compliance

Compliant with all EU Directives including ATEX IECEx Certified
 FCC Part 15/ICES-003/EN55022/CISPR 22 Class A
 UL 913 Certified

Regulatory Compliance - Pending
 NOM-NYCE

Hazardous Location Certifications (ATEX/IECEx)

Zone 0, IIC, T4
 Zone 20, T250°C
 Group I M1

ATEX Countries

Approved: Europe, Turkey, Norway, Switzerland, Czech Republic

IECEx Countries

Approved: New Zealand, Australia, Singapore, Malaysia
Pending: Saudi Arabia, South Africa, Thailand, UAE, Brazil, China, South Korea, Indonesia, Philippines

Hazardous Location Certifications (UL)

Class I, Division 1, Groups A, B, C, D - T4
 Class I, Zone 0, Group IIC, T4
 Class II, Division 1, Groups E, F, G - T4
 Class III, Division 1

UL Countries

Approved: U.S., Canada
Pending: Mexico

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