

# Intermec Mobile Computers for Hazardous Locations Selection Guide





## How to determine which computer is right for you.

When you're specifying mobile solutions for workers in hazardous environments, safety is paramount. That much is clear. The choices can seem complex, however. Here are some steps to get you started.

### Identify the hazard

Begin by defining the kind of hazards present in your environment. Are there flammable gases, vapors or liquids? How about combustible dusts or ignitable fibers? Are these hazards present all of the time, during normal operating conditions, or only occasionally? These distinctions – the kind of hazard, and how prevalent it is – will determine the safety ratings required for your mobile equipment. Consult with your company's safety engineer to identify the specific hazards that are present in your operation.

### Consider your operating locations

Are you specifying a mobile device for one location, or twenty? Are those locations in one country, or several? While safety requirements are becoming more similar across the globe, there are still significant variations. There are three common standards organizations that define the safety requirements for device manufacturers.

- Underwriters Laboratory (UL) – United States, Canada, Mexico - [www.ul.com](http://www.ul.com)
- European Atmospheres Explosibles Directives (ATEX) - European Union, and many others
- International Electrotechnical Commission (IECEX) – Australia, Brazil, China, Singapore, Saudi Arabia, Thailand and many others - [www.IECEX.ch/](http://www.IECEX.ch/)

Your company's safety engineer can help ensure you are evaluating products that can meet all your needs, on a global basis.

### Determine the appropriate device category

The certification agencies classify hazardous locations according to how potentially explosive the atmosphere is, and define them according to a detailed scheme of Classes, Divisions, Groups and Zones. Equipment certified for operation in these environments is rigorously tested and rated according to the kind of protection it provides.

Handheld devices that will be used in environments in which ignitable concentrations of flammable gases, combustible dusts or ignitable fibers are likely to exist some or all of the time under normal operating conditions must be rated **Intrinsically Safe**. This is highest level of protection possible, making it the safest device choice.

A **Non-Incendive** device is designed for use in environments where the specified hazard may be present, but is not likely to exist under normal operating conditions.

Your company's safety engineer can specify which category and associated certifications are appropriate for your application. For more information on hazardous environment definitions, visit the UL website: [www.ul.com/hazloc/define.htm](http://www.ul.com/hazloc/define.htm)

### Define your technology needs

Consider the needs of your workforce, both today and in the future, so that you can specify a solution that can grow with your business. Do your users need to be able to send and receive data from both inside your operations, and out in the field? Are your maintenance or warehouse personnel using the device to perform scan-intensive operations? Do your applications require Terminal Emulation? The right device will meet both your safety and your business requirements.

### The big picture

If your mobile computing needs extend beyond the hazardous environments in your enterprise, look for a supplier that can provide a range of integrated devices. With a single supplier and a family of solutions, you can reduce training and support costs and be assured of seamless integration. Consider also the supplier's longevity in the industry and dedication to building products specifically for hazardous environments.

## Intermec Mobile Computers for Hazardous Locations

### A full range of solutions to meet your needs.

#### CK321S Mobile Computer

Intrinsically Safe (UL)  
Intrinsically Safe (ATEX)  
Intrinsically Safe (IECEX)



The safest choice for mobile computing across multiple hazardous locations, the CK321S is designed from inception to meet the most stringent global requirements -- not only for gases, liquids and vapors, but also for dusts, fibers and flyings. Its exceptionally rugged design enhances safety and ensures reliable performance in the harshest environments. With Windows Mobile 5.0® support and a full complement of wireless communications capabilities (802.11 b/g with Cisco® CCX v.3, Ethernet, Bluetooth® and WiFi®), the CK321S provides non-stop connectivity and safety.

#### Specifications

**Operating System:** Windows Mobile 5.0  
**Application Software:** Factory loaded Intermec TE2000 terminal emulation  
**Memory:** 128 MB RAM; 512 MB Persistent Storage  
**Environmental:** IP67, 5 foot Drop Spec, -20°C to +50°C Operating Temperature

#### Certifications:

##### UL:

**Gases, Liquids, Vapors:**  
Class I, Div 1, Groups A,B,C,D, T4  
Class I, Zone 0, Group IIC, T4

##### Dusts & Fibers:

Class II Div 1, Groups E, F, G, T4  
Class III Div 1

##### ATEX:

**Gases, Liquids, Vapors:**  
Zone 0, T4, Group IIC

**Dusts & Fibers:** Zone 20 Group II, T250°C

**Underground Mining:** Group I M1

##### IECEX:

**Gases, Liquids, Vapors:**  
Zone 0, T4, Group IIC

**Dusts & Fibers:** Zone 20 Group II, T250°C

**Underground Mining:** Group I M1

**Communications:** USB, Bluetooth, Ethernet

**Radio:** 802.11 b/g, Cisco CCX v3

**Integrated Scanning Options:** Linear Imager

#### 741b/751b NI Pen/Notepad Computer

Non-Incendive (UL)  
Zone 2 (ATEX) - pending  
Zone 2 (IECEX) - pending



The highly configurable Intermec 741/751 Mobile Computer is an ideal choice for cross-functional applications in UL-rated Class 1, Div 2 environments. For workers whose day may begin on-premise, utilizing wireless LAN access points and then move off-premise for field monitoring and maintenance, the 741/751's wireless wide-area voice and data services will keep them well connected. Bluetooth compatible networking, multiple scanning options and bright 3.8" display gives your workers the tools they need in a lightweight, PDA-like form factor.

#### Specifications

**Operating System:** Windows Mobile 5.0 or Windows Mobile 2003

**Memory:** 128 MB RAM; 64MB Flash ROM; SD and CF slots

**Environmental:** IP64, 6 foot Drop Spec, -20°C to +60°C Operating Temperature

#### Certifications:

**UL:** Class I Div 2, Groups A, B, C, D, T6

**Communications:** RS232, USB, IrDA 1.1, Ethernet

**Radio:** 802.11 b/g, WiFi, Bluetooth, Cisco CCX v.2

**Integrated Scanning Options:** Area Imager, Linear Imager, Standard Range Laser

### CK31 NI Handheld Computer Non-Incendive (UL)



The popular Intermec CK31 Computer delivers rugged, in-premise wireless data collection with a complete range of scanning options and support for Intermec TE2000 terminal emulation. The CK31 is Class I, Div2 certified for all gas groups in North America and holds certifications for dusts and fibers as well, making it a safe and flexible choice for scan intensive applications across multiple environments.

#### Specifications

**Operating System:** Windows CE.NET 4.2  
**Application Software:** Factory loaded Intermec TE2000 terminal emulation  
**Memory:** 64 MB RAM; 64MB Non-Volatile Flash ROM; user-accessible SD slot  
**Environmental:** IP64, 6 foot Drop Spec, -20°C to +50°C Operating Temperature

#### Certifications:

**UL:** Class I Div 2, Groups A, B,C, D, T4  
Class II, Div 2, Groups F,G  
Class III, Div 2

**Communications:** RS232, USB, Bluetooth, WLAN

**Radio:** 802.11 b/g, WiFi, Bluetooth, Cisco CCX v.2

**Integrated Scanning Options:** Linear Imager, Area Imager, Standard and Long Range Laser

### CK61 NI Handheld Computer Non-Incendive (UL)



The exceptionally rugged CK61 NI is designed for demanding applications with heavy local data processing requirements and significant local storage needs. The numeric keypad features large, easy-to-use keys and excellent tactile feel, to support high volume data input. The CK61 provides Cisco Compatible 802.11 a/b/g radio with choice of industry standard wireless security protocols, and all-day battery capacity. A strong and powerful solution for cross-enterprise deployment.

#### Specifications

**Operating System:** Windows CE 5.0 or Windows Mobile 5.0  
**Memory:** available 128 MB RAM; 192 MB Flash ROM; externally-accessible SD card slot  
**Environmental:** IP64, 6 foot Drop Spec, -20°C to +50°C Operating Temperature

#### Certifications:

**UL:** Class I Div 2, Groups A, B,C, D, T6  
**Certifications -Pending:**  
**UL:** Class II Div 2, Groups F, G  
Class III Div 2

**Communications:** RS232, Ethernet, USB  
**Radio:** 802.11 a/b/g, WiFi, Bluetooth (std), Cisco CCX v.2 (optional)  
**Integrated Scanning Options:** Area Imager, Standard Range Laser



## Built to meet the most stringent standards. Yours.

### Intermec Mobile Computers for Hazardous Locations

Intermec has 40 years of experience building supply chain solutions for demanding environments and we are committed to meeting the hazardous location computing needs of our customers on a global scale.

#### Rugged, Safe & Secure

Our mobile computers are built to stand up to the rigors of even the toughest applications. Drop specifications are based on industrial standards: units are drop-tested 26 times including all sides and corners. Plus, rugged features such as internal magnesium frames, laser-etched hard keycaps, and polycarbonate enclosures ensure safety and reliability without compromising productivity due to breakage.

We build the safest possible solutions for our customers. Our design engineers follow the changing global certification requirements closely, so that safety-enhancing features can be quickly incorporated into our products. For example, the recently released CK321S was designed from the ground up to meet the most stringent safety requirements that exist on a global basis -- intrinsically safe standards from UL, ATEX and IECEx.

Intermec partners with Cisco Systems to deliver best-in-class wireless network infrastructure along with the Intermec complete line of ruggedized Cisco Compatible mobile devices and services. Working together ensures interoperability and superior end-to-end performance and security.

#### Easy to Deploy, Use & Support

Intermec mobile computers for hazardous locations combine superior design and ruggedness, the latest Microsoft Windows operating system technology and Intermec SmartSystems™ device management software making them easy to deploy, use and support. SmartSystems Foundation lets you manage all devices on the system -- Intermec computers, printers, RFID components, software applications, bar code scanners and other peripherals -- on-site or remotely from a single, centralized console. Administrators can change device settings, send OS upgrades, update software applications, and execute other changes directly from the console.

#### Aligned with Technology Leaders

Intermec helps you achieve the most return from your mobile computing and all your automated data capture investments. We do more than design and build the industry's most complete lineup of rugged, reliable and versatile equipment. We also work with you to understand your unique situation and then leverage our strong relationships with industry-leading partners including Cisco, SAP, Oracle, IBM and Microsoft to help you create a total solution that harmonizes with your networks, platforms and processes.

#### Globally Supported

An international network of certified service and support partners in 70 locations worldwide provide peace of mind that your mission-critical operation will stay up and running when you need it most. In addition to localized support, Intermec offers a host of Medallion Service options, and access to manuals, downloads and 24-hour help from our online Knowledge Central database.

**Intermec products for hazardous locations are complemented by a complete line of solutions and services for your supply chain**

Mobile computing solutions  
Mobile and fixed RFID systems  
Scanning technology  
Printers and media  
Professional services  
Wireless networks  
Support services  
Software tools and utilities

For more information, please visit [www.intermec.com](http://www.intermec.com).



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