



THORNE &
DERRICK
INTERNATIONAL

Thorne & Derrick
+44 (0) 191 410 4292
www.heatingandprocess.com



Intrinsically Safe PDAs in Zone 2 / 22

THE APPROPRIATE DEVICE
FOR ALL REQUIREMENTS

CK7xA ATEX

WE DIDN'T COMPROMISE; NEITHER SHOULD YOU

Balancing cost control with customer satisfaction requires true supply chain agility. Delivering on that vision requires your staff to be equally agile, with the ability to react to every situation quickly, confidently and accurately.

However, finding the optimal rugged mobile business solution to achieve supply chain agility can often present another balancing act: satisfying the needs and preferences of operations management, users and IT, without trade-offs and sacrifices.

CK7xA ATEX

ULTRA-RUGGED MOBILE COMPUTERS

CK70A ATEX

- Explosive atmosphere ATEX certified (Zone 2 / 22)
- 12% smaller and lighter than leading devices in the ultra-rugged class
- Flexible radio technology provides optimal network coverage and a superior solution for implementing least cost routing strategies
- Industry's fastest imaging engine delivering superior motion tolerance, laser aiming system, and optimized scanning angle for maximum productivity
- Part of Intermec's comprehensive enterprise business solution
- Pre-loaded with Intermec HTML5 Browser
- On-board diagnostics and INcontrol Managed Services provide device health visibility
- Best-in-class battery life for longer run time



ACTIVE PREVENTION - EVERY SECOND COUNTS

EVERY SECOND COUNTS

When workload demands shift unexpectedly, the CK70A ATEX and CK71A ATEX give you the flexibility to redeploy staff without consideration to the tools needed to get the job done. As a result, workers can quickly and confidently transition to tasks that require near or far scanning, speech, voice, and image capture, without wasting time finding and reorienting themselves on unfamiliar devices.

SCRATCHED AND DAMAGED DISPLAYS

Missing or unreadable keys not only slow your workers down, they reflect poorly on your company's image. The no-compromise design of the CK70A ATEX and CK71A ATEX includes an all-light visible VGA display, high durability Gorilla® Glass touch panel and indestructible keypad technology to ensure that they stay in workers' hands instead of the repair depot.



CERTIFICATION

ATEX

Ⓔ II 3G Ex ic IIC T4 Gc



Ⓔ II 3D Ex ic IIIB T130°C Dc IP54

CK71A ATEX

- Explosive atmosphere ATEX certified [Zone 2 / 22]
- 31% smaller and lighter than leading devices in the ultra rugged class
- Dual band 802.11n radio for pervasive wireless coverage
- Industry's fastest and farthest imaging engines delivering superior motion tolerance and barcode read range
- Exceptional peripheral support and quick change snap-on accessories
- On-board diagnostics and INcontrol Managed Services provide device health visibility
- Advanced power and battery management technologies extend device run time and reduce expense of replacement batteries

CK7xA ATEX

CK70A ATEX

Large alpha keypad with numeric legends



Alphanumeric keypad



CK71A ATEX

Numeric keypad with large function keys



Alphanumeric keypad with function keys



BASIC SPECIFICATIONS

Battery Pack	3.7 V ; 5200 mAh ; Li-Ion, removable, rechargeable, IEEE 1725 compliant
Operating System	Microsoft® Windows® Embedded Handheld 6.5.3
Processor	Texas Instruments (OMAP3) 1 GHz multi-engine processor architecture
Memory and Storage	RAM: 512 MB ROM: 1 GB Flash Customer-accessible microSD slot for removable memory cards up to 32 GB
Display	• 3.5 in Transmissive VGA • 480 x 640 pixels • 65,536 Colors (16 bit RGB) • High-Durability Touch Screen • LED Backlight • Ambient Light Sensor
Standard Communications	USB – Full Speed 2.0 Host®, USB – Full Speed 2.0 Client®, IrDA

AN OUNCE OF PREVENTION

BASED ON A SHARED PLATFORM

The CK70A ATEX and CK71A ATEX are just two models out of five available in the ATEX certified 70 Series family. Each model offers a distinct, purpose-built form factor and includes choices of radios, keypads, imagers, software and services.

This provides the ability to tailor a solution specific to each application area within your environment, supporting the preferences and needs of your employees without the added expense of supporting multiple device platforms.

EVERY 70 SERIES MOBILE COMPUTER COMES PRE-LOADED

with Intermec's ScanNGo client to provide a premium device provisioning experience to simplify and expedite device staging operations. The standalone ScanNGo client enables CK70A ATEX and CK71A ATEX users to provision, configure and automatically download application software even over WWAN in a matter of seconds rather than minutes by simply reading pre-configured barcodes.

PHYSICAL CHARACTERISTICS	
CK70A ATEX Dimensions with battery	L x W x D: 23.7 x 8.0 x 4.3cm (9.33 x 3.16 x 1.69 in) Weight: 562 g (19 oz) with battery Width (grip area): 6.42 cm (2.53 in)
CK71A ATEX Dimensions with battery	L x W x D: 23.7 x 8.0 x 5.0 cm (9.33 x 3.16 x 1.98 in) Weight: 584 g (19.75 oz) with battery Width (grip area): 6.42 cm (2.53 in)
ENVIRONMENTAL	
Operating Temperature	-20° C to +50° C (-4° F to +122° F)
Storage Temperature	-30° C to +70° C (-22° F to +158° F)
Charging Temperature	+5° C to +35° C (41° F to 95° F)
Relative Humidity	Non-condensing, 95%
Rain & Dust Resistance	IP67
Drop Specification	2.4 m (8 ft.) to concrete per MIL-STD 810G, 1.8 m (6 ft.) to concrete across operating temperature range per MIL-STD 810G 2,000 tumbles at 1m per IEC 60068-2-32 specification
Electrostatic Discharge	+/- 15 kV air discharge; +/- 8 kV direct discharge

CK7xA ATEX

SOFTWARE APPS & COMPONENTS

Device Management	Intermec SmartSystems™ support includes ScanNGo provisioning for use alone or with device management software from Intermec ISVs
Device Health Monitoring	Remote access requires SmartSystem Management option
Application Development	Intermec Developer Library (www.intermec.com/dev)
Imaging Solutions	Intermec Shipment Address Verification (SAV) and Mobile Document Imaging (MDI) are compatible, licensed and sold separately
Web Browsing	Intermec HTML5 Browser
Data Management	Skynax® Mobile Communications

INTEGRATED RADIOS

WWAN OPTIONS*

UMTS / HSUPA

UMTS Frequencies	800, 850, 900, 1900, 2100 MHz
GSM/GPRS Frequencies	850, 900, 1800, 1900 MHz
Max Speeds (Network dependent):	Uplink – 5.76 Mbps, Downlink – 7.2 Mbps
CDMA / EV-DO Rev. A	
CDMA Frequencies	800, 1900 MHz
Max Speeds (Network dependent):	Uplink – 1.8 Mbps, Downlink – 3.1 Mbps

FLEXIBLE NETWORK *

UMTS/HSPA+ Frequencies	800, 850, 900, 1700, 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 Frequencies	800, 1900 MHz
Max Speeds (Network dependent):	Uplink – 1.8 Mbps, Downlink – 3.1 Mbps

* CK70A ATEX ONLY

WLAN OPTIONS	
Wireless LAN	IEEE® 802.11 a/b/g/n Dual Band WLAN
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	BT Class II, Version 2.1+EDR
Operating channels	0 to 78 (2402-2480 MHz)
Data Rates	1, 2, 3 Mbps
GPS	GPS 12 channel integrated GPS; Network independent autonomous mode; supports assisted operation via WAN
Antenna	Internal

SENSOR TECHNOLOGY	
Accelerometer	Embedded accelerometer enables automatic or application-specific features such as screen rotation or system suspend
Audio Support	Supports VoIP / Speech recognition / Push-to-talk applications; front and rear speakers; rear speaker >80 dB at 40 cm (15.7 in); Front receiver and front panel microphone for handset audio communication and audio recording; Wireless BT headset support; Wired headset support via snap on adapter
Integrated Scanner Options	EA30 high performance motion tolerant 2D Imager; white LED illumination; red laser aimer optimized for all lighting conditions; 35 degree downward scan angle; capable of scanning all common 1D and 2D barcodes; 1D as small as 5 mil; PDF as small as 6.6 mil; Data Matrix as small as 7.5 mil; and standard UPC codes from distances up to 33 cm (13 in)
Integrated RFID Reader Option	The CK70A ATEX is available with integrated UHF RFID reading capabilities
Integrated Camera Option	5 Megapixel auto focus color camera with LED flash
Keypad Options	All keypad options feature hard keycaps with laser-etched legends

CN70x ATEX

- Explosive atmosphere ATEX certified (Zone 2 / 22)
- Windows® Embedded Handheld 6.5.3 Professional Operating System
- Flexible radio technology provides optimal network coverage and a superior solution for implementing least cost routing strategies
- Advanced barcode imaging technology with motion tolerance for snappy scanning and white illumination with laser aiming for high read rates
- Brilliant display with extended life touch panel
- Pre-Loaded with Intermec HTML5 Browser

CN70x ATEX

ULTRA-RUGGED MOBILE COMPUTERS

MOBILE WORKER

Today's mobile worker is in a race against time and needs to get the job done right – right now. Spotty wireless coverage, weather extremes, damaged barcodes, dimly lit trucks, and heavy device wear and tear are the reality of their day.

The CN70A ATEX and CN70E ATEX meet these challenges head on with next generation features that save valuable seconds and deliver unparalleled reliability. Intermec's high performance imager provides optimal barcode scanning capabilities even in low light scanning environments and unmatched motion tolerance as well as laser aiming for the snappiest speeds. These features eliminate costly delays in scan intensive applications.



WE DIDN'T COMPROMISE; NEITHER SHOULD YOU

Selecting the optimal rugged mobile business solution that satisfies the needs and preferences of IT, Operations Managers and the device user has often required trade-offs: size vs. ruggedness; weight vs. battery life; support and maintenance of multiple devices and platforms vs. a streamlined, single solution to perform different jobs and functions.

The nocompromise design of the CN70A ATEX and CN70E ATEX achieves true functional agility with the perfect balance of ruggedness, duty cycle and ergonomics.

CERTIFICATION

ATEX



Ⓔ II 3G Ex ic IIC T4 Gc

Ⓔ II 3D Ex ic IIIB T130°C Dc IP54



CN70x ATEX

THE CN70X IN USE

The CN70A and CN70E's design is optimized for field mobility environments. Specifically the CN70A is optimal for mobile field service who need power and performance in a compact form factor. The CN70E offers the same powerpacked computing but comes with a larger keypad design making it ideal for delivery environments where workers may be wearing gloves or have more data input intensive applications. Extend the use of the CN70A and CN70E into hazardous locations with the explosive atmosphere certified (ATEX Zone 2 / 22) CN70A ATEX and CN70E ATEX.

The CN70A ATEX and CN70E ATEX extend their no-compromise design to radio connectivity as well. Their wide-area solutions feature a Flexible Network™ data only radio that operates on any type of network; offering switch-on-the-fly network selection capability and eliminating the need for multiple pools of devices dedicated to one network.

The 70 Series also offers UMTS / HSUPA and CDMA / EV-DO Rev voice and data transmission technology.. Whatever your wide-area communication environment, 70 Series offers an option to meet your needs.

SCRATCHED AND DAMAGED DISPLAYS

Missing or unreadable keys not only slow your workers down, they reflect poorly on your company's image. The no-compromise design of the CK70A ATEX and CK71A ATEX includes an all-light visible VGA display, high durability Gorilla® Glass touch panel virtually indestructable keypad technology to ensure that they stay in workers' hands instead of the repair depot.

PHYSICAL CHARACTERISTICS

CN70A ATEX Dimensions with battery	L x W x D: 16.9 x 8.0 x 3.4 cm (6.65 x 3.15 x 1.34 in) Weight: 450 g (15.9 oz) with battery
---------------------------------------	--

CN70E ATEX Dimensions with battery	L x W x D: 19.5 x 8.0 x 3.4 cm (7.66 x 3.15 x 1.34 in) Weight: 491 g (17.3 oz) with battery
---------------------------------------	--

ENVIRONMENTAL

Operating Temperature	-20° C to +50° C (-4° F to +122° F)
Storage Temperature	-30° C to +70° C (-22° F to +158° F)
Charging Temperature	+5° C to +35° C (41° F to 95° F)
Relative Humidity	Non-condensing, 95%
Rain & Dust Resistance	IP67
Drop Specification	2.4 m (8 ft.) to concrete per MIL-STD 810G, 1.8 m (6 ft.) to concrete across operating temperature range per MIL-STD 810G 2,000 tumbles at 1m per IEC 60068-2-32 specification
Electrostatic Discharge	+/- 15 kV air discharge; +/- 8 kV direct discharge

CN70A ATEX

- 1** Numeric keypad
with backlit shifted plane legends
- 2** QWERTY keypad
with backlit shifted plane legends



CN70E ATEX

- 1** Large numeric keypad
with backlit shifted plane legends
- 2** QWERTY numeric keypad
with backlit shifted plane legends



BASED ON A SHARED PLATFORM

The CN70A ATEX and CN70E ATEX are just two models out of five available in the ATEX certified 70 Series family. Each model offers a distinct, purpose-built form factor and includes choices of radios, keypads, imagers, software and services.

This provides the ability to tailor a solution specific to each application area within your environment, supporting the preferences and needs of your employees without the added expense of supporting multiple device platforms. With a single platform approach, the 70 Series family is unique in its ability to deliver the benefits that come with one computer architecture, common system software, one set of peripherals and one docking system to reduce infrastructure complexity and cost. It brings simplicity to the frequent tasks of software updates, training new employees, managing spares pools and charging devices.

CN70x ATEX

BASIC SPECIFICATIONS

Battery Pack	3.7 V; 4000 mAh; IEEE 1725 compliant, rechargeable Li-Ion battery IEEE 1725 compliant
Operating System	Microsoft® Windows® Embedded Handheld 6.5.3
Processor	Texas Instruments (OMAP3) architecture with 1 GHz multi-engine processor
Memory and Storage	RAM: 512 MB ROM: 1 GB Flash Customer-accessible microSD slot for removable memory cards up to 32 GB
Display	• 3.5 in Transmissive VGA • 480 x 640 pixels • 65,536 (16 bit RGB) Colors • High-Durability Touch Screen • LED Backlight • Ambient Light Sensor
Standard Communications	USB – Full Speed 2.0 Host®, USB – Full Speed 2.0 Client®, IrDA

APPS AND COMPONENTS

Device Management	Intermec SmartSystems™ support includes ScanNGo provisioning for use alone or with device management software from Intermec ISV s
Device Health Monitoring	Remote access requires SmartSystem Management option
Application Development	Intermec Developer Library (www.intermec.com/dev)
Imaging Solutions	Intermec Shipment Address Verification (SAV) and Mobile Document Imaging (MDI) are compatible, licensed and sold separately
Web Browsing	Intermec HTML5 Browser
Data Management	Skynax® Mobile Communications

INTEGRATED RADIOS

WWAN FUNCTIONS	
UMTS / HSPA	
UMTS-Frequencies	800, 850, 900, 1900, 2100 MHz
GSM/GPRS-Frequencies	850, 900, 1800, 1900 MHz
Max Speeds (Network dependent)	Uplink – 5.76 Mbps, Downlink - 7.2 Mbps
CDMA / EV-DO Rev. A	
CDMA-Frequencies	800, 1900 MHz
Max. Speeds (Network dependent)	Uplink – 1.8 Mbps, Downlink - 3.1 Mbps
FLEXIBLE NETWORK	
UMTS/HSPA+ Frequencies	800, 850, 900, 1700, 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 Frequencies	800, 1900 MHz
Max. Speeds (Network dependent)	Uplink – 1.8 Mbps, Downlink – 3.1 Mbps

CN70x ATEX

WLAN OPTIONS

Wireless LAN	IEEE® 802.11 a/b/g/n Dual Band WLAN
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	BT Class II, Version 2.1+EDR
Operating channels	0 to 78 (2402-2480 MHz)
Data Rates	1, 2, 3 Mbps
GPS	12 channel integrated GPS; Network independent autonomous mode; supports assisted operation via WAN
Antenna	Internal

SENSOR TECHNOLOGY

Accelerometer	Embedded accelerometer enables automatic or application-specific features such as screen rotation or system suspend
Audio Support	Supports VoIP / Speech recognition / Push-to-talk applications; front and rear speakers; rear speaker >80 dB at 40 cm (15.7 in); Front receiver and front panel microphone for handset audio communication and audio recording; Wireless BT headset support; Wired headset support via snap on adapter
Integrated Scanner Options	EA30 high performance motion tolerant 2D Imager; white LED illumination; red laser aimer optimized for all lighting conditions; 35 degree downward scan angle; capable of scanning all common 1D and 2D barcodes; 1D as small as 5 mm; PDF as small as 6.6 mm; Data Matrix as small as 7.5 mm; and standard UPC codes from distances up to 33 cm (13 in)
Integrated RFID Reader Option	The CN70A ATEX and CN70E ATEX are available with integrated UHF RFID reading capabilities
Integrated Camera Option	5 Megapixel auto focus color camera with LED flash
Keypad Options	All keypad options feature hard keycaps with laser-etched legends



**THORNE &
DERRICK
INTERNATIONAL**

Thorne & Derrick
+44 (0) 191 410 4292
www.heatingandprocess.com

Germany (Headquarters) ¹

ecom instruments GmbH
Industriestraße 2
97959 Assamstadt
Phone +49 62 94 42 24-0
Fax +49 62 94 42 24-100
sales@ecom-ex.com
¹ also covering Austria

ecom Benelux ²

ecom instruments BV
Watertoren 45c
3247 CL Dirksland, Netherlands
Phone +31 1 87 60 59 16
Fax +31 1 87 60 33 47
info.nl@ecom-ex.com
² also covering Belgium and Luxembourg

France ³

ecom Nied sarl
4 Rue Ettore Bugatti
67201 Eckbolsheim
Phone +33 3 88 76 46 84
Fax +33 3 88 76 02 85
info.fr@ecom-ex.com
³ also covering Algeria, Egypt, Morocco,
Tunisia and Libya

Italy

ecom instruments srl
Via Gandhi, 15 Galleria
20017 Rho (MI)
Phone +39 02 93 90 92 16
Fax +39 02 93 90 62 97
info.it@ecom-ex.com

Switzerland

ecom instruments GmbH
Merkurstraße 2
6210 Sursee
Phone +41 4 19 21 60 00
Fax +41 4 19 22 00 08
info.ch@ecom-ex.com

Nordics

ecom instruments GmbH
Postbox 304
2970 Hørsholm
Denmark
Phone +45 28 252 575
info.nordics@ecom-ex.com

United Kingdom

ecom instruments ltd
A310, The Wilton Centre,
Redcar, TS10 4RF,
United Kingdom
Phone +44 1642 46 54 00
Fax +44 1642 46 54 02
info.uk@ecom-ex.com

Middle East

ecom instruments fze
P.O. Box 8918
Saif-Zone, Sharjah, UAE
Phone +971 6 5 57 34 30
Fax +971 6 5 57 34 31
info.uae@ecom-ex.com

Americas

USA

ecom instruments Inc.
1779 Westborough Drive, Suite 102
Katy, Texas 77449
Phone +1 281 496 59 30
Fax +1 281 496 23 21
info.us@ecom-ex.com

Asia

South East Asia

ecom instruments (SEA) Pte Ltd.
12 Arumugam Road
#05-11 Lion Building B
Singapore 409958
Phone +65 61 00 33 29
Fax +65 63 99 33 29
info.sg@ecom-ex.com



Locate your nearest ecom partner on www.ecom-ex.com