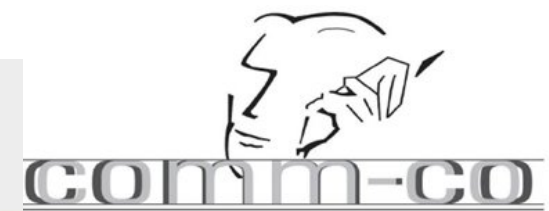


The *i.roc* x20 – product overview



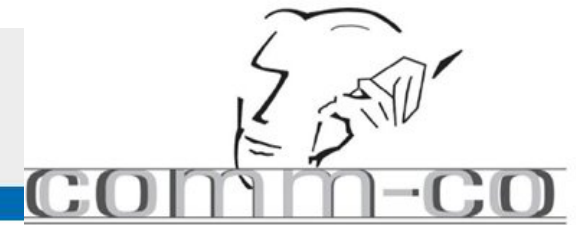
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Fax: +3114-370029
E-mail: Info@comm-co.com
Website: <http://www.comm-co.com>

www.atexshop.com
www.ruggedshop.nl
www.webpainter.nl
www.eyecctv.nl

Product management – mobile computing

Data handling – made easy & safe



The *i.roc* x20 is more than just an idea!



data management – it handles data flexibly and in real-time

easy – flexible options allows customisation – to suit you

safe – both in and outside of Ex-hazardous areas

Look closer at our mobile solutions



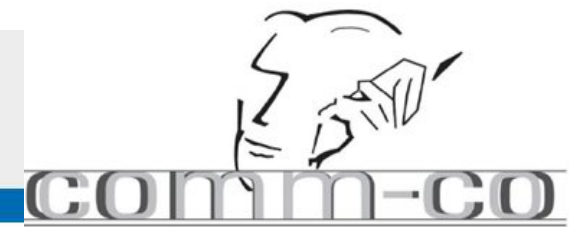
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Product management – mobile computing

i.roc x20 – the concept



Industrial high performance PDA based on WindowsMobile™



***i.roc* 420**
Non Ex

***i.roc* 520 -Ex**
ATEX Zone 2/22

***i.roc* 620 -Ex**
ATEX Zone 1/21

- ergonomic design, facilitates operation without fatigue during continuous use
- high illuminated color display with high resolution, readable even in adverse light conditions
- antistatic, IP65 rated, Ex-dust certified and shockproof housing
- certified for use in a wide range of Ex-hazardous areas by:



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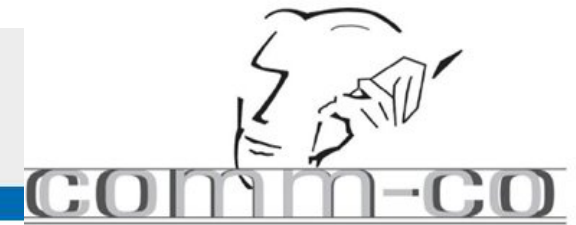
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Product management – mobile computing

i.roc x20 – the range



i.roc 420
Non Ex



i.roc 520 -Ex
ATEX Zone 2/22



i.roc 620 -Ex
ATEX Zone 1/21

- based on HP iPAQ technology
- XScale-processor PXA 270 (520Mhz)
- shock-resistant TFT-Display with touch screen
- 192 MB internal memory
 - 128 MB ROM / 64 MB RAM
- available operating systems:
 - Microsoft Windows Mobile 2003 SE
 - Microsoft Windows Mobile 5
- onboard WLAN (802.11b)
- Bluetooth class II
- IrDA
- IP 65 protection class
- rechargeable Li-ion battery (up to 3600 mAh)
- extensive range of accessories



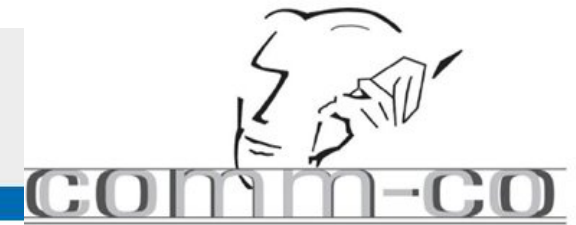
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Product management – mobile computing

i.roc 520-Ex



i.roc 520-Ex:

ATEX Zone 2 gas and dust certified

i.roc 527-Ex:

FM Class 1 Div 2 certified

Increased operational areas:

Same as the *i.roc 420*, but can also be used in Ex-hazardous areas such as:

- refineries
- pharmaceutical sites
- petrochemical sites

Ignition protection safety – combined with superb ergonomic!

Company Info:
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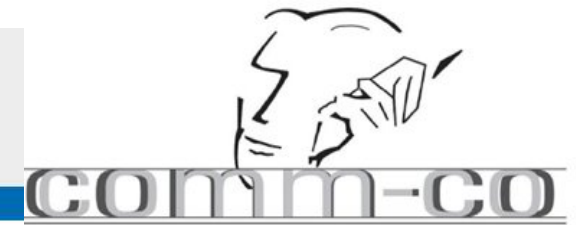
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Product management – mobile computing

i.roc 620-Ex



i.roc 620-Ex:

ATEX Zone 1 gas and dust certified

i.roc 623-Ex:

ATEX M1 mining certified

i.roc 627-Ex:

FM Class 1 Div 1 Groups A-D certified

Gives the freedom of use in almost all types of Ex-hazardous areas.

No longer are you restricted in being able to do your work.

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www.eyectv.nl





Accessories

The extensive range of accessories (leather carry case, hand strap, USB data transfer set, car holder, additional batteries, charging cable, etc.) further enhances the application and use of the i.roc.

Here is just a selection of accessories currently available. If you have a specific requirement - please contact us.

Leather bag with belt loop and carrying strap



The leather bag combines carrying comfort and easy handling.

Hand strap



This hand strap reduces handling fatigue and helps prevent accidental dropping.

Leather carry case with carrying strap and stylus



Especially made for use with the **i.roc** series, this leather carry case further expands and enhances the usage of the i.roc. While providing much higher impact protection as well as comfortable carrying, its flexible design means that it is also suitable for i.roc units that are fitted with either RFID or Barcode modules.

Handle



Ergonomically sound handling using the screw-on type handle broadens the possibilities of functions and applications.

Dockingstation



The docking station DS x10 can be used to charge the devices internal battery pack as well as synchronise data with a desktop PC connected via USB. Depending on custom configuration, when inserting the **i.roc** x20, a synchronisation software, like Microsoft Active Sync, will run automatically.

Display-protection



This special antistatic display protection film consists on a relativ soft material. The writing sense reminds like to pens on a paper. The soft material of the film protects the surface from scratches. They can easily be removed and cleaned and reused several times.

Charging adapter for vehicles



The i.roc can also be recharged in cars using the charging adapter LGx10 car.

Software

ecom Tools

To set up the i.roc x20 series exactly to customers specifications, ecom instruments developed some smart software applications and tools. The functions described on these pages are principally available on every i.roc x20. Projects or customer specific programmes can be realised easily and quickly.



ecom Edit

With the help of this tool the end-user is able to configure the PDA. With "Auto-Install" and the "SystemBackup", the new configuration will be loaded after next hardreset. The parameters are divided into several chapters like WLAN, Bluetooth, Power, Storage, Keyboard and others. The configuration file can be also modified on the desktop computer before distributing to your mobile devices. This allows an easy way to configure a large amount of devices within a project.



KioskMode

One of the favorite applications for Pocket PC is to allow only the use of predefined programs - This functionality is called Kiosk Mode. The tool KioskSwitcher which can be used on every i.roc x20 allows it to set up nearly every custom application in such a Kiosk Mode.



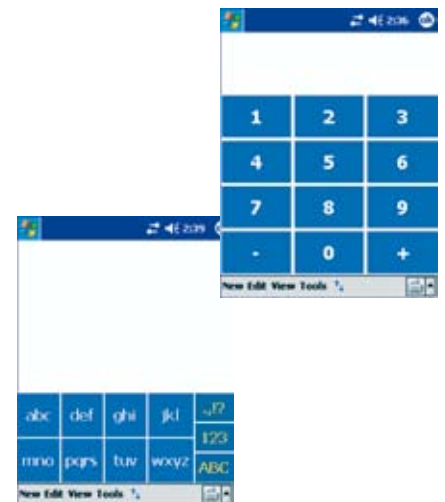
AutoInstall

One of the best ways to back up and restore all the information you wish to keep on your mobile device. It is safe, easy to install, simple to use and it's developed exactly for the i.roc x20 series efforts. System SuperVisors can choose between using an AutoInstall or SystemBackup function, together these two applications fulfill every customers wish to preconfigure



Keyboards

Especially for PDAs for industrial use a reliable and easy method of recording data is required. Responding to these requirements **ecom instruments** decided to take a new road - with virtual full-screen keyboards.



Worn and dirty keypads, ingress of dust and contaminants and a lack of keypad illumination are now no longer a problem.

- three different layouts (numeric, alpha, special) available
- fast-switch key



Technical Data

Processor

Intel XScale® PXA 270 Processor (520 MHz)

RAM

64 MB SDRAM

ROM

Flash ROM 128 MB (depending on operating system language up to 80 MB user accessible iPAQ File Store) , built-in SD card slot, (fitted with standard 1 GB SD card), build in CF card slot

Display

3.5" transreflective TFT color display, 64k, QVGA, 240 x 320 pixel, portrait and landscape mode, protected by a Makrolon panel

Audio

Integrated microphone and loudspeaker, internal 3.5mm Stereo audio jacket

Power supply

Rechargeable lithium-ion battery, different capacities depending on model type (i.roc 420: 2880 mAh; i.roc 520 -Ex: 2880 mAh; i.roc 620 -Ex: 3600 mAh)

Note: The battery's service life depends on the user's operating habits and the PDA's configuration. The use of radio modules and background lighting significantly reduces operating time (larger batteries available on request).

Charger

LG x10 (Input: 100~240 VAC, 50/60 Hz, 0.3 A, Output: 5VDC (typical), 2A (typical) different country plugs available

Keyboard

On/off – switch, reset keys, 5 programmable function keys, 5-way navigation field (customised design on request)

Housing

Protection class IP 65 (immersion for brief periods), antistatic non-corroding housing, shock resistance 1m (3.28') onto concrete

Dimensions

L x W x D:

420	178 x 85 (89) x 39 (49) mm 7" x 3.3" (3.5") x 1.5" (1.9")
520 -Ex	178 x 85 (89) x 39 (49) mm 7" x 3.3" (3.5") x 1.5" (1.9")
620 -Ex	178 x 85 (89) x 39 (49) mm 7" x 3.3" (3.5") x 1.5" (1.9")

Weight

420:	approx. 550 grams (19.4 oz)
520 -Ex:	approx. 550 grams (19.4 oz)
620 -Ex:	approx. 700 grams (24.6 oz)

Temperature ranges

Storage temp.:	-10°C +60°C (14°F 140°F)
Charging temp.:	0°C +45°C (32°F 113°F)
Working temp. 42x:	-10°C +60°C (14°F 140°F)
Working temp. 52x -Ex:	-10°C +50°C (14°F 122°F)

Relative humidity



Storage up to 90% r.h.
Operation up to 90% r.h.

Maximum altitude



Storage up to 12,192 m (40,000 ft)
Operation up to 4,572 m (15,000 ft)

Ex-data device types


i.roc 620 -Ex

ATEX Zone 1 / 21
 II 2 G EEx ia IIC T4
 II 2 D T99°C IP 65

i.roc 520 -Ex

ATEX Zone 2 / 22
 II 3 G EEx nL IIC T4
 II 3 D T99°C IP 65

i.roc 623 -Ex

ATEX Mining
 I M1 EEx ia I
 $-10^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$

i.roc 627 -Ex

FM Class I, Division 1, Group A-D



(Certification 620 -Ex included)

i.roc 527 -Ex

FM Class I, Division 2, Group A-D



(Certification 520 -Ex included)

i.roc 420

Ruggedized Industrial PDA