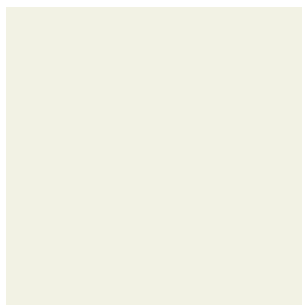
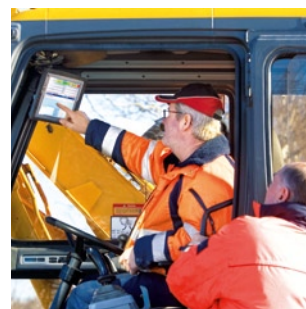




CC Pilot XS

Versatile on-board computer
built to your needs

CC Pilot XS is a slim and rugged display computer and controller for industrial vehicles and machines. It is intended for use in on-board control and information systems and is designed to operate in very harsh environments. With its large variety of interfaces, advanced built-in features and versatile software platform it can be customized to fit your specific needs.





Versatile and rugged on-board computer

Variety of standard models

CC Pilot XS is available in a number of standard models, each representing different equipment levels in terms of interfaces and built-in features. All standard models come with either a 6.5 inch or a 10.4 inch display with touch screen and Windows CE operating system.

... or built to your needs

CC Pilot XS is also offered in customised versions, offering the possibility to have both hardware and software adapted to the specific needs of your application. This is made possible through CC Systems' strong development and engineering support organisation.

Standard program

- » Standard hardware and operating system

Option select program

- » Hardware and operating system based on a pre-defined options program

Customised program

- » Customised electronic design and operating system outside the pre-defined options program

Product program

The CC Pilot XS product program has three levels; the standard program is based on off the shelf versions. The Option select program means you can select a unique

equipment level based on available, pre-defined feature options. In the Customisation program we develop new features and engineer a product for your specific needs.



Wide range of pre-defined options

With the Option select program you can configure CC Pilot XS to your specific requirements. The table below describes the general specifications and available options for CC Pilot XS.

GENERAL SPECIFICATIONS

Kernel

Main CPU	Intel XScale®, IXP425, 533 MHz
Graphics controller	Silicon motion, 8 MB RAM
Kernel Flash	32 MB

Display and HMI

TFT 6.5 inch	VGA 640 x 480
TFT 10.4 inch	SVGA 800 x 600
Backlight	CCFL ~400 nit
Touch screen	Resistive, 8 wire type
Keyboard/mouse	Via USB connection

Power

Current	850 mA at 24 VDC (6.5 inch) or 1 A at 24 VDC (10.4 inch) (consumption includes 5V at USB Ports)
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Mechanical

Enclosure	Aluminium
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Mounting	Bracket (VESA 75) or panel
Connectors	DIN M12 SMA for antennae

Environment

IP class	IP67
Temperature range	-40 °C to + 65 °C (operating) -40 °C to + 70 °C (storage)
EMC conformity	2004/108/EC, EN61000-6-2:2001 EN61000-6-4:2001
Vibrations	0.01 g 2/Hz 5–200 Hz 1.39 g (RMS)
Shock	5 g/30 ms 3 x 3 x 3

Size and weight 6.5 / 10.4 inch

Depth [mm]	41/40
Height [mm]	173/217
Width [mm]	211/285
Weight [kg]	1.3/1.7

AVAILABLE OPTIONS

Kernel

Hard disk	Compact flash, 128 MB to 32 GB
RAM	128 MB or 256 MB SDRAM

Software

Operating system	Windows® CE 5.0 or Linux
Programming environment	CoDeSys, C, C++, C#, Eclipse, Rhapsody

Display and HMI

Pushbuttons	On/Off, Backlight Up and Down. The push-buttons can be configured for other uses
Status LED	In front panel with configurable behaviour
No display	Pilot XS supplied without graphical display, for use as powerful controller or communication gateway

Power

Voltage	10–36 VDC. 48, 72 and 110 VDC optional
Power reserve	Energy back-up feature for handling short dips in voltage

Interfaces

USB	Up to two USB 2.0 Hi-speed
Ethernet	Up to two Ethernet 10/100 Base-T
CAN	Up to two CAN 2.0B
Video	Up to two composite video in
Audio	Audio AC'97; Line out Right & Left, Microphone in
Serial	RS232
Digital in	Up to three Digital in
GPS	Built-in GPS receiver
GSM/GPRS	Built-in quad band GSM/GPRS modem
WLAN	Built in Wlan 801.11 b/g
Bluetooth	Built-in Bluetooth

Note: In the option select program it is possible to select the type and number of interfaces you need from the listing above. Some options cannot be combined. Please contact us for more information.

» Customisation – no limitations

With the Customised program we develop new features and engineer a CC Pilot XS for your specific needs. Below are examples of such customisation.

Interfaces	Other interfaces than the pre-defined options can be offered on request, for example four CAN-buses, a Profibus interface or a larger number of Digital Inputs.
Push buttons	For applications where user interaction via touch screen is not preferred, CC Pilot XS can be supplied with push buttons either on the front panel or with separate button panels.
Display for extreme vibrations	CC Pilot XS can be supplied with a TFT display that manages extreme shock and vibration loads.
Display with enhanced readability	We enhance the brightness of the display to 600 Nits or higher, based on what is needed for the application. Anti-reflection treatment of the display surface is also an option for improved readability.
Alternative touch panels	We create a design with capacitive, IR or other touch screen technology.
Branding	The front overlay of CC Pilot XS can be branded, e.g. with logotype, choice of colour etc. Furthermore, the unit can be supplied with a marking plate according to your specifications.
Hibernate mode	For applications where instant start up is important, a version that features hibernate mode can be offered.
Power supply	CC Pilot XS can be designed to manage various supply voltages, adapted to the power supply available in your application.

Battery and docking	CC Pilot XS can be offered with battery and docking station, for applications where the display needs to function as a handheld device.
Wireless	Other wireless interfaces than the pre-defined options can be offered on request.
Operating system	The operating system can be adapted to include optional components, for example a specific Windows CE image or a custom Linux version.
Software and application	We offer to load your software application and the set of standard software you need on the unit. We also offer software engineering services for the software functionality you need to have developed.





ADVANCED MACHINE CONTROLS

CC Systems supplies advanced electronics and control system solutions for industrial vehicles and machines. Among our customers you find leading OEMs like John Deere, Bombardier Transportation, Atlas Copco, Kalmar Industries and Volvo CE. We develop products and platforms that make vehicles and machines more intelligent, reliable and productive. Our ability to manage long product life cycles makes us a reliable partner – for our customers' success today and tomorrow.

Advanced display computers and rugged electronics

We offer products for controlling machines and industrial vehicles. Our solutions are characterised by flexibility, high performance, reliability and quality. We are specialised in making electronics which survive in demanding environments.

Customised hardware

We customise hardware for our customers' unique needs. Customisation is offered either as an adaptation of one of our standard components or as a totally customised solution. No limitations. We handle all steps in the customisation, from specification to commissioned serial production.

Unlimited software platforms

Our software platform contains a complete framework for controls, components for graphical user interface design and machine telematics solutions. Our system testing platform is a powerful tool in system development, saving time and resources and shortening time-to-market for our customers.

System solutions

To many customers we supply a complete system with controllers, display computers, I/O-modules and the cabling needed. Our customers can develop the system software themselves or utilise our engineering support capability.

For more information about our products and solutions please contact us.

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