CC Pilot XL

– versatile high performance on-board PC

The **CC Pilot XL** is a powerful, versatile and robust on-board PC, ideal for use in control and information systems. With its rich functionality and high performance, it functions as the central component in a totally integrated mobile system.

The CC Pilot XL is an industrial product, intended for heavy-duty professional use.

It is designed to operate in harsh environments with extreme temperatures, vibrations, and exposure to dust and water.

Modular assembly

The CC Pilot XL has a modular design with separate PC and display modules. The two modules can be installed as a single unit or separately to better fit in applications where space and visibility considerations are critical. For optimal installation, a single cable is used to connect the modules to each other.

High performance displays

The CC Pilot XL is supplied with a quality high-resolution colour display in either 10"4 or 12"1. The optional touch screen facilitates the operator's interaction with the computer.

Rich & robust interfaces

The CC Pilot XL provides a large variety of interfaces, easily accessed from the PC module. Its M12 connectors offer robust interfaces that are designed to tolerate high environmental stress.

Via the unit's standard interfaces, such as: USB, RS232, and Ethernet, one can easily expand the unit's functionality. For example, with GPS, GSM/GPRS/3G and WLAN.

Dual CAN

The CC Pilot XL is equipped with two separate CAN interfaces, which makes integration with two different CAN networks simple. CANopen, SAE J1939 or even a proprietary protocol can be used.

Advanced video functionality

The CC Pilot XL is equipped with two Video In ports. This is ideal for displaying front- and rear-view camera images. The two video signals can be displayed on the unit and also streamed to other computers.

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CC SYSTEMS

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SPECIFICATIONS

Kernel

Processor	Intel Pentium Mobile, 1.6 GHz
Hard disk	Compact Flash (512 MB to 32 GB) or rotating hard disk (2″5, >40 GB) Exchangeable via hatch on enclosure.
RAM	1024 MB

Interfaces

2 x CAN	2.0B, ISO 11898–24V, fault tolerant CAN
2 x VideoIn	PAL/NTSC composite
1 x Ethernet	10/100 Base-T
4 x USB	2.0
1 x COM	RS232
Audio	Line out, speaker out, mic in
1 x DMI	VGA, LWDS and Display power (interface for CC Pilot XL display unit)
1 x VGA out	RGB (for running 3rd party display)

Display

Size	10″4 or 12″1
Resolution	XGA (1024x768)
Glass	Anti-reflection treated
Interfaces	VGA In, LVDS and power in one connector

HMI

Push buttons	Backlight Up/Down
Status LED	In front panel
Touch Screen	Resistive

Power

Voltage	10–36 VDC
Current	Typical 1.3–2 A at 24 VDC

Environment

IP class	IP54
Temperature range	-40 °C – +55 °C (operating) -40 °C – +60 °C (storage)
EMC Conformity	2004/108/EC ISO 14982:1998
Vibration	0,01 g2/Hz 5–200 Hz 1,39g (RMS)
Shock	5g/30ms 3x3x3

Software

Operating system	Windows® XP, Linux® Windows® XP Embedded.

Internal control

Light sensor	For automatic backlight control
Internal temperature	Protection against over heating in abnormal ambient conditions
Heating	For start-up at extreme (low) ambient temperatures

OPTIONS

CPU	Alternative CPU-boards with performance in the range 600 MHz–1.8 GHz
Fan-less	The unit can be supplied without the external fan for active cooling. This option is available for low-power CPU-alternatives.

Size & weight	PC[1]	10"4	12"1	PC[1] + 12"1
W [mm]	268	286	322	322
H [mm]	197	217	257	257
D [mm]	43/58[2]	57	60	88/103[2]
Weight [kg]	3.1	1.8	2.7	5.8

1) The depth of the PC-module does not include any attached cables.
2) Includes external fan for active cooling

CC Pilot XL – rear view of unit with PC-module and display module integrated as a package. These can also be separated and be connected to each other via a single cable.

– advanced machine controls