CCpilot XS
– all-integrated onboard display computer

CCpilot XS is an onboard display computer with a wealth of integrated functions. With its powerful Intel XScale CPU running Windows CE or Linux it is an open platform that facilitates easy implementation of controls and other onboard systems.

CC PILOT XS

CAN and Ethernet
CCpilot XS is easily integrated into a vehicles CAN and Ethernet network architecture. It supports CANopen®, SAE J1939 or proprietary protocols.

Premium Graphical User Interfaces
The high-quality display in CCpilot XS together with the powerful kernel facilitates implementation of premium Graphical User Interfaces. CCpilot XS can run the GUI for the whole vehicle, including engine data, hydraulic controls, electric controls etc.

Acting as video monitor
CCpilot XS can be used as video monitor for connected cameras without using main CPU power. The video images are overlaid on the Graphical User Interface. It has also the capability of storing snapshot 'photographs' from the camera images. This feature is valuable in applications where a photo documentation can be used to prove that the vehicle could not performs its task properly.

Wireless options
CCpilot XS has Bluetooth, WLAN, GSM/GPRS and GPS as optional built-in functions. With these wireless options it can be used as a telematics gateway in a vehicle control system.

Open software platform
The Win CE or Linux operating system makes it easy to design both the graphics, controller and telematics gateway software, using tools like C/C++/C#, Eclipse, Qt etc. You can also choose to develop your software by using an IEC 61131-3 tool like CoDeSys.

Variety of standard models...
CCpilot XS is available in a number of standard models, with different levels of interfaces and built-in features. Standard models come with either a 6.5" or a 10.4" touch screen display and Windows CE operating system.

CCpilot XS standard models

- Basic
- Extended
- All-Integrated
- All-Integrated Plus

Turn the page for technical specifications »

CCpilot XS
– all-integrated onboard display computer

SPECIFICATIONS

Kernel

Main CPU	Intel XScale, IXP425, 533 MHz
Compact flash	1 GB, for application and storage
Kernel flash	32 MB, for operating system
RAM	256 MB SDRAM
Graphics controller	Silicon motion, 8 MB RAM

Display and HMI

TFT 6.5 in	VGA 640 x 480
TFT 10.4 in	SVGA 800 x 600
Backlight	CCFL 400 cd/m^2
Touch screen	Resistive, 8 wire type
Pushbuttons	On/Off, Backlight Up and Backlight Down
Status LED	In front panel with configurable behaviour
Photo diode	For automatic backlight control
Keyboard/mouse	Connected via USB

Power

Voltage	24 VDC nominal
Current	Typ. 850 mA at 24 VDC (6.5 in) Typ. 1 A at 24 VDC (10.4 in) (consumption includes 5V at USB Ports)

Software

Operating system	Windows CE 5.0

Environment

IP class	IP65
Temperature range [°C]	-40 to + 65 (operating) -40 to + 70 (storage)
EMC conformity	2004/108/EC, EN61000-6-2:2001, EN61000-6-4:2001
Vibrations	0.01 g2/Hz 5–200 Hz 1.39 g (RMS)
Shock	5 g/30 ms 3 x 3 x 3

Mechanical

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

Size and weight

Display size [inch]	6.5	10.4
D x H x W [mm]	41 x 173 x 211	40 x 217 x 285
Weight [kg]	1.3	2.0

Note: Measures include rubber frame and exclude connectors.

STANDARD MODEL EQUIPMENT LEVELS

		Basic	Extended	All-Integrated	All-Integrated Plus
CAN	2 x CAN ISO 11898, 2.0B	o	o	o	o
USB	2 x USB 2.0 Hi-speed	o	o	o	o
Serial	8 pin RS232	o	o*	o*	o*
Ethernet	2 x 10/100 Base-T	o	o	o	o
Digital In	2 x internal pull-up		o	o	o
Audio	Audio AC'97, Line out Right & Left, Microphone in		o	o	o
Bluetooth	Built-in HCI Bluetooth with external antenna		o		o
Video	2 x composite video in, supports PAL and NTSC		o	o	o
GPS	Built-in GPS receiver with external antenna			o	o
GSM/GPRS	Built-in GSM/GPRS modem with external antenna			o	o
WLAN	Built in Wlan 801.11 b/g with external antenna				o

*RS232,RxD, TxD and GND pins available, no hardware control signals, 115000 baud.

cr•ssc•ntr•l Phone: +46 (0)271 75 76 00 | Sales contact: sales@crosscontrol.com | General: info@crosscontrol.com | www.crosscontrol.com