CC Pilot XS All-Integrated
– versatile on-board computer

The **CC Pilot XS All-Integrated** is a powerful, versatile and robust on-board computer for use in control systems and Fleet Management applications. With its rich set of features it functions as the central component in a totally integrated mobile system. The CC Pilot XS All-Integrated is an industrial product, intended for heavy duty professional use.

All-integrated features
The CC Pilot XS All-Integrated is equipped with a powerful Intel XScale® CPU which combines high performance with low power consumption. A non-rotating hard disk (Compact Flash) of 1 GB size, for persistent storage of data is standard. The RAM memory size is 256 MB.

HMI
The CC Pilot XS All-Integrated is supplied with either a 6"5 or a 10"4 high-quality graphical colour display with touch screen. To maximise the performance of the CPU computing power and the application performance a separate graphics controller is added, which also makes it possible to use resolutions up to 800x600.

Dual CAN
In addition to standard interfaces like USB, COM and Ethernet, the CC Pilot XS All-Integrated has two CAN interfaces. This enables easy interfacing with the vehicle's control system, for example via CANopen and/or SAE J1939. The unit is equipped with a touch screen for easy communication. For connection of external keyboard and mouse the USB port is used.

Fleet management systems
With built-in GPS and GPRS/GSM functions the unit is an ideal on-board computer for use in Fleet Management systems. As a mobile client, installed in a vehicle or a mobile plant, the unit can run on-board applications for positioning, back-office communication and diagnostics.

Video and audio functionality
With two video channels, presentation of video signals in real-time is possible. This means that no separate rear view camera monitor's is required in the cabin. The video is processed by dedicated hardware and does not load the main CPU, which in this case only initiates and opens a graphical window. The audio interface enables easy connection to the vehicles loudspeaker system, often utilised when running navigation software with voice support.

The CC Pilot XS All-Integrated has push buttons for power on/off and adjustments of display backlight. The built-in light sensor measures the ambient lighting conditions and adjusts the display backlight accordingly.

Tough in the rough
With its light-weight and slim design the CC Pilot XS All-Integrated can easily be fitted in a cabin, either as tripod or panel mounted. The unit is suitable for use in harsh environments, with its wide temperature range and IP67 enclosure; the unit can withstand extreme temperatures, vibrations, and exposure to dust and water.

CC SYSTEMS

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── SPECIFICATIONS ──

Kernel

Processor	Intel XScale®, IXP425, 533 MHz
Compact Flash	1 GB, for application
Kernel Flash	32 MB, for operating system
RAM	256 MB SDRAM
Graphic controller	Silicon motion, 8 MB RAM

Interfaces

2 x USB	USB 2.0, Hi-speed
1 x COM	RS232, RxD, TxD and GND pins available, No hardware control signals, 115000 baud
Audio	AC'97, Line out Right, Line out Left, Microphone in
2 x Digital In	0 – 36 VDC, 100k internal pull-up to 3.3V
2 x Ethernet	2 Ethernet Ports, 10/100 Base-T
2 x CAN	Two separate CAN interface, 2.0B, ISO 11898 - 24V
2 x Video In	Two composite video inputs, supports PAL and NTSC
GPS	Internal iTrax3 GPS receiver, SMA connector for external antenna, 50 ohm coax, 3.3V active
GSM/GPRS	Internal Siemens AC45 modem, SMA connector for external antenna

Display

6"5	VGA 640x480 TFT (Article number: C000 095-06)
10"4	SVGA 800x600 TFT (Article number: C000 095-03)
Backlight	CCFL ~400 nit

HMI

Pushbuttons	On/Off, Backlight Up and Backlight Down
Touch screen	Resistive, 8 wire type
Status	LED In front panel
Keyboard/mouse	Can be connected via USB

Power

Voltage	10–36 VDC
Current	Typ. 850 mA at 24 VDC (6"5) (consumption includes 5V at USB Ports) Typ. 1 A at 24 VDC (10"4) (consumption includes 5V at USB Ports)

Environment

IP class	IP67
Temperature range	-40 °C – + 65 °C (operating) -40 °C – + 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 1,39g (RMS)
Shock	5g/30ms 3x3x3

Software

Operating system	Windows® CE 5.0
Video	Video In viewer

Internal control

Photo diode	For automatic backlight control
Internal temperature	Protection against over heating in abnormal ambient conditions

Size and weight[1]

	6"5	10"4
D [mm] [2]	41	40
H [mm]	173	217
W [mm]	211	285
Weight [kg]	1.3	1.7

1) Including rubber frame
2) Excluding connectors

Enquiries

Address

Phone

CC SYSTEMS