



# CCpilot XL HIGH-PERFORMANCE ON-BOARD PC

CCpilot XL is a 12" PC-based touch screen display computer with Intel i7 core and Win7 image for efficient deployment of advanced HMI systems and applications. The XL has been in the market for more than 10 years, gradually upgraded in performance and

features to provide a robust and dependable PC display platform for the industry's most sophisticated on-board control and automation systems.

**Turn for technical specifications »**

The content herein is preliminary and may be subject to change without further notice.

# CCpilot XL PRODUCT SPECIFICATIONS

COMPUTING CORE	
<b>MAIN PROCESSOR</b>	Intel core i7 3517UE @ 2 x 1.7GHz
<b>COPROCESSOR</b>	Runs watchdog functions controlling integrity of product, for increased reliability and safety.
<b>STORAGE</b>	128 GB, MLC C-Fast. Extra C-fast slot available for optional secondary disk, enabling on-board data back-up.
<b>RAM</b>	4 GB
<b>GPU</b>	Intel HD graphics 4000. Integrated Graphics Processing Unit supporting hardware accelerated 2D, 3D and vector graphics.

DISPLAY	
<b>TYPE</b>	TFT with LED backlight
<b>COVER LENS</b>	Plastic with anti-glare treatment
<b>SIZE AND RESOLUTION</b>	12.1", XGA, 1024 x 768 pixels
<b>COLOR DEPTH</b>	24 bit
<b>CONTRAST RATIO</b>	600:1
<b>BRIGHTNESS*</b>	500 cd/m <sup>2</sup> (Touch screen: 400 cd/m <sup>2</sup> )
<b>DIMMING</b>	Automatic dimming through ambient light sensor. Dimming can be controlled manually via soft keys and/or touch screen.

HMI	
<b>TOUCH SCREEN</b>	Resistive. Option to replace touch screen with anti reflex treated glass cover lens.
<b>SOFT KEYS</b>	3 soft keys, configurable. Default function is Power On/Off and control of display brightness.
<b>STATUS LED</b>	Configurable status LED in front panel. Default function is for boot-up status and faults.
<b>BUZZER</b>	Configurable buzzer for alarms and notifications.
<b>PC BEEPER</b>	Beeper for standard Windows PC sound notifications.

INTERFACES	
<b>CAN</b>	2 x CAN, physical layer ISO 11898 2.0B. Bit-rate configurable 20 kbit/s - 250 kbit/s. CAN power, current up to 2 A, single on/off control.  To avoid interference caused by EMC the max speed should be limited to 250 kbit/s. Using higher bit rates requires adapted filtering, available as an optional adaption, and shielded cables.
<b>ETHERNET</b>	1 x Ethernet. 10/100 Base-T.
<b>USB</b>	6 x USB 2.0  USB data signal integrity at hi-speed communication must be tested with the specific cabling and peripherals used in the actual application. Use appropriate high quality USB cables and connectors.

<b>SERIAL</b>	1 x RS232. Up to 115 200 baud Rx, Tx, RTS, CTS, GND
<b>DIGITAL IN</b>	4 x Digital In, with 5 kOhm internal pull-up to input voltage.
<b>VIDEO</b>	4 x Analogue Video in, NTSC or PAL. 4 x video power, 12V, combined current limit at 1A, individual on/off control.
<b>POWER SUPPLY</b>	12 or 24 VDC nominal voltage. Voltage range 10-32 VDC. CPU and communication operational down to 7,0 VDC.

SOFTWARE	
<b>OPERATING SYSTEM</b>	Win7

ENVIRONMENT	
<b>IP CLASS</b>	IP54
<b>EMC CONFORMITY</b>	2004/108/EC, ISO 14982:2009
<b>VIBRATIONS</b>	0,01 g2/Hz 5-200 Hz 3x1h
<b>SHOCK</b>	5 g/11ms 3x ±1000 bumps
<b>TEMPERATURE RANGE (°C)</b>	Operating: -25 to +55 Storage: -40 to +60

ENCLOSURE	
<b>HOUSING MATERIAL</b>	Aluminium
<b>MECHANICAL INSTALLATION</b>	For mounting on stand/arm with VESA 75 bracket.
<b>CONNECTORS</b>	DIN M12

SIZE AND WEIGHT	
<b>W x H x D (mm)</b>	316 x 251 x 85
<b>WEIGHT (kg)</b>	3.5

\* Typical values

**crosscontrol**

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