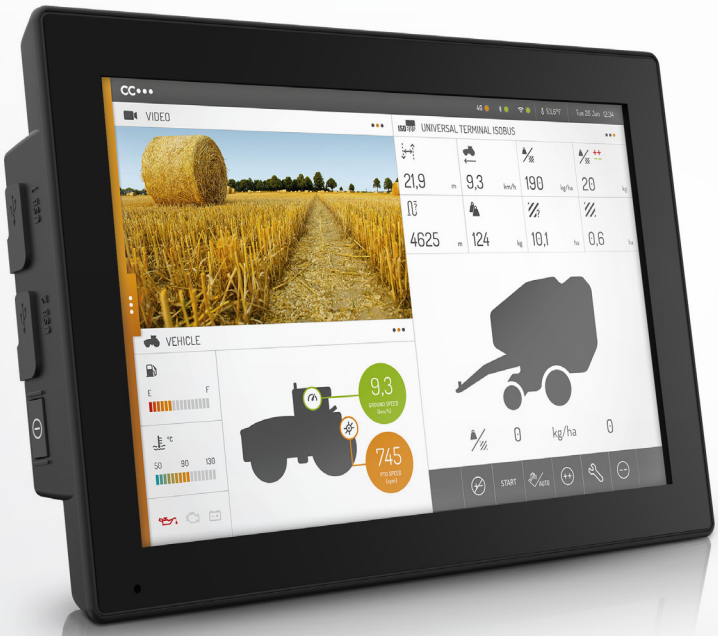
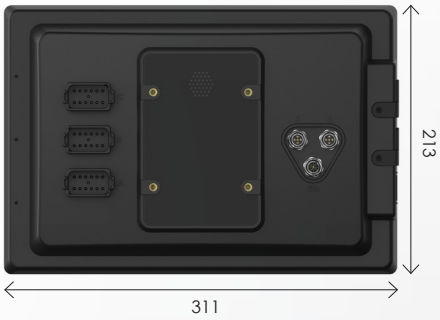


(mm)



CCpilot VS FREELY PROGRAMMABLE MULTIFUNCTIONAL 12" DISPLAY

CCpilot VS is a 12" full-colour display with a powerful ARM CPU. The open LinX software platform offers a choice of powerful tools for application development. This, together with a WXGA high brightness display with optical bonding and hardware accelerated 2D, 3D and vector graphics, enables fast design of premium user interfaces. CCpilot VS has multifunctional capability and can be used as instrumentation display, machine control HMI, video monitor, electronic manual and more.

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CCpilot VS PRODUCT SPECIFICATIONS

COMPUTING CORE	
MAIN PROCESSOR	Freescale i.MX6 Quad - 1 GHz. Runs freely programmable Linux system and LinX Software Suite base package.
COPROCESSOR	Runs watchdog functions controlling integrity of product, for increased reliability and safety.
STORAGE	4GByte NAND flash in pseudo-SLC mode for operating system and applications.
RAM	2GByte DDR3
GPU	Integrated Graphics Processing Unit supporting hardware accelerated 2D, 3D and vector graphics.

DISPLAY	
TYPE	TFT with LED backlight
COVER LENS	Glass. No surface treatment to achieve best resistance to scratches.
SIZE AND RESOLUTION	12" WXGA, 1280x800 pixels
COLOR DEPTH	24 bit
CONTRAST RATIO	700:1
BRIGHTNESS*	1350 cd/m²
DIMMING	Automatic dimming through ambient light sensor. Dimming can be controlled manually via touch screen.
OPTICAL BONDING	TFT and Touch Screen optically bonded

HMI	
TOUCH SCREEN	Projective Capacitive (PCAP) with 2-point multi-touch.
SOFT KEYS	On/Off button on left side of unit, with backlit symbol.
BUZZER	Buzzer for audible alerts, sound pressure level at 1m in front of the display is 85dB (2500-3500Hz).

INTERFACES	
USB	4 x USB 2.0. 2 in DIN M12 connectors, 2 in standard USB connector on left side of unit
CAN	4 x CAN, physical layer ISO11898 2.0B and J1939-11. Bitrate configurable 20 kbps - 1 Mbps.
ETHERNET	1 x Ethernet. 10/100 Base-T. In DIN M12 connector.
SERIAL	1 x RS232, 1 x RS485
INPUTS	2 x Digital In 2 x Analog In
OUTPUTS	6 x Digital Out (On/Off). Drive capacity 400 or 800 mA.
POWER SUPPLY	12 or 24 VDC nominal voltage. Voltage range 9-32 VDC. CPU and communication operational down to 7,5 VDC.
KEY SWITCH	1 x Key switch input, for start-up/shut down. Utilizes the 2 x Digital In.
VIDEO	1 x Analog Video input. NTSC or PAL.

SOFTWARE	
OPERATING SYSTEM	CrossControl Linux (Yocto project-based Linux distribution with Wayland window manager).
BSP & SDK	Yocto project board support package and software development kits enabling development of customized Linux images, drivers and applications.
CCAUX API	Power management, diagnostics, startup and shutdown behavior configuration, button configuration, LED control, buzzer, etc.
SOFTWARE APPLICATION PLATFORM	LinX Software Suite, basic package. Extension modules available, eg. CODESYS.

ENVIRONMENT	
IP CLASS	IP65
EMC CONFORMITY	Emission: EN ISO 14982:2009. Immunity: EN ISO 14982:2009, ISO11452-2:2004, ISO11452-4:2011. Transient: EN ISO 14982:2009, ISO 7637-2:2011. ESD: EN ISO 14982:2009, ISO/TR 10605:2008
VIBRATIONS	IEC 60721-3-5 Class 5M3, IEC 60068-2-64 10-200Hz - 0,03g²/Hz 200-500Hz - 0,01g²/Hz 3x4h ~3grms
SHOCK	IEC 60721-3-5 Class 5M3, IEC 60068-2-27:2007 30 g/ 11ms - 3 x ±1000 impulses
TEMPERATURE RANGE (°C)	Operating: -30 to +70 Storage: -30 to +80

ENCLOSURE	
HOUSING MATERIAL	Reinforced nylon
MECHANICAL INSTALLATION	Mounting on stand/arm with VESA75 bracket.
CONNECTORS	3 x DT multipin connectors, 12 pins each 3 x DIN M12 (2 x USB, 1 x Ethernet) 2 x USB standard connectors available on the units left side

SIZE AND WEIGHT	
W x H x D (mm)	311 x 213 x 66
WEIGHT (kg)	2.0

* Typical values

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