MULTIFUNCTIONAL ISOBUS TERMINALS

A MODULAR ISOBUS TERMINAL PLATFORM FEATURING POWERFUL SUNLIGHT READABLE DISPLAYS IN 7"-12" THAT ENABLES OEMS AND SYSTEM SUPPLIERS TO REALISE A CUSTOMISABLE ISOBUS SOLUTION. THE DYNAMIC TERMINAL CAN DEPLOY ISOBUS AND NON-ISOBUS FEATURES SIMULTANEOUS TO CREATE EFFICIENT MULTI-FUNCTIONAL TERMINALS FOR ANY IRON, WHATEVER THE COLOUR.

crosscontrol

making machines smart, safe and productive

DURABLE HARDWARE WITH HORSEPOWER

The terminals come with high-brightness displays in sizes 7'' to 12'' and optically bonded PCAP, all-glass touch screens for a modern user interaction and good readability in sunlight. Graphics Processing Unit supporting hardware accelerated graphics makes the user interface respond fast, giving a premium user experience.

They feature powerful ARM CPUs and a rich set-up of external interfaces, enabling integration of different sub-systems and ability to run several applications in parallel. The terminals manage demanding environmental conditions, with operating temperature in the range – 25 C to +70 C and sealing to minimum IP65.

CCPILOT V700	
CPU	i.MX 8X dual core 1 GHz
FLASH	4 GB, Pseudo SLC
RAM	1 GB
DISPLAY	7'' WVGA, IPS type with super wide viewing angles and vivid colors
BRIGHTNESS	800 Nits
OPTICAL BONDING	Yes
TOUCH SCREEN	PCAP, with AG (anti-glare) coating
CAN	2 x CAN FD, CANopen & J1939
ETHERNET	1x, 100 MBit
USB	1x, USB2.0, High-speed
INSTALLATION	On bracket or integrated in panel/armrest

CCPILOT VS 12"	
DISPLAY	12" WXGA, 1280x800 pixels
CORE	i.MX6 Quad, 4 GB storage, 2 GB RAM
INTERFACES	4 x CAN
	1 x Ethernet, 10/100 Base-T
	4 x USB 2.0
	1 x Analog Video inputs
	Serial interfaces – 1 x RS232, 1 x RS485
	2 x digital in, 2 x analog in
	6 x On/Off outputs, 400 or 800 mA

WHY MULTIFUNCTIONAL TERMINALS?

With a multi-functional terminal, displays for the various subsystems are made redundant, saving real estate and cost in the cab. The concept of a truly multi-functional display allows equipment OEMs to offer a high value, easy to use system as well as opening up avenues for offering aftermarket upgrades. With access to all critical information, side by side on the same screen, operators can interact with the equipment more efficiently.

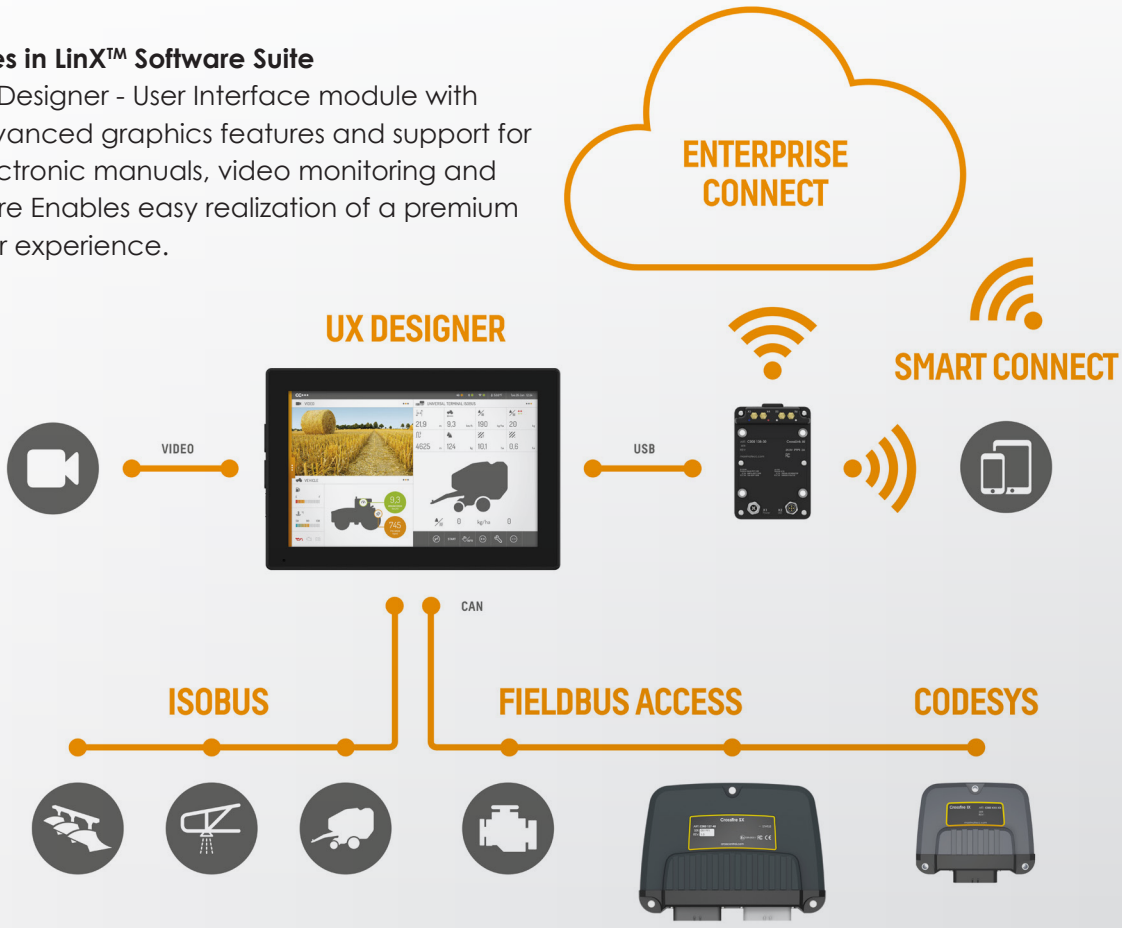
OPEN AND MODULAR SOFTWARE PLATFORM WITH ISOBUS

Terminals come with LinX™ Software Suite - an open and modular software application platform based on Linux/Qt that is used across all display products from CrossControl. LinX™ features modules for advanced Graphical User Interfaces, a soft PLC module for control functionality, a telematics module and more. The platform, launched in 2014, has constantly been refined and expanded with new modules, ISOBUS being the most recent addition.

With the modular approach, you only use the modules needed for solving your actual needs and you have the opportunity to make use of additional modules as your system evolves over time.

Modules in LinX™ Software Suite

- UX Designer - User Interface module with advanced graphics features and support for electronic manuals, video monitoring and more Enables easy realization of a premium user experience.
- Enterprise Connect - seamless telematics solution with on-board data collection, wireless communication and cloud hosting.
- Smart Connect - Easy creation of Apps for Smartphones and Tablets, enabling integration of Smart devices with your vehicle system.
- CODESYS - State-of-the-art soft PLC for control applications and visualization.
- Fieldbus Access - Fieldbus management with J1939 and CANopen available out-of-the-box.
- ISOBUS - ISOBUS Universal Terminal (UT), Task Controller (TC) and navigation and guidance.



ISOBUS PLATFORM WITH UT & TC

The ISOBUS module in LinX™ means that displays can be used as ISOBUS terminals for any connected implement that has an ISOBUS controller. Universal Terminal (UT) and Task Controller (TC) are available as components that allow system developers to create a tailored, integrated HMI system where ISOBUS functionality co-exists with additional functionality including video monitoring, camera images, electronic manuals, tractor instrumentation and more.

ISOBUS UT

ISOBUS UT is a plug-and-play user interface for the implement, visualizing data from the implement and allowing the user to control the implement from the display, a.k.a. Virtual Terminal.

In the CrossControl ISOBUS platform, the UT is divided into several components, meaning that different areas in the GUI - controls, workspace selection and soft keys – are components that you can place where you like in the GUI and also change properties individually. This enables you to adopt the look-and-feel of the UT user interface to fit into the total HMI system running on the display and reflect OEM or System supplier branding.

ISOBUS TC

The main function of ISOBUS TC is to log data and set set-point values for predefined work on the implement and it is used for managing farm resources and farm activities in the field.
It also serves as a gateway between the Farm PC software (FMIS) and the implement. The ISOBUS TC will have its own user interface for interacting with the implements and the farm resources.

In the CrossControl ISOBUS platform, the TC is a component with predefined functionality and when you apply it in your HMI design you can change the appearance through property settings. CrossControl also offers customization of the functionality of the TC component.

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