MAKING MACHINES

SMARTER, SAFER & MORE PRODUCTIVE

crosscontrol

MARKETS AND APPLICATIONS

CROSSCONTROL OFFERS A PLATFORM FOR MACHINE INTELLIGENCE DESIGNED TO MEET THE NEEDS IN THE OFF-HIGHWAY AND INDUSTRIAL VEHICLE MARKETS.

Our customers are vehicle and equipment OEMs, System Suppliers and System Integrators in end markets like Agriculture, Construction, Forestry, Material Handling, Mining, Cargo, and Utility Vehicles.

Our modular technology platform allows for the creation of industry leading HMI and on-board computing solutions. Deployed solutions include digital instrumentation, process control, guidance, telematics, connectivity, video, automation and more.

We specialise in making products that perform in demanding environmental conditions and applications with high requirements on reliability and quality.

"WE MAKE ADVANCED TECHNOLGY SOLUTIONS DESIGNED TO SUCCEED IN THE TOUGHEST ENVIRONMENTS"
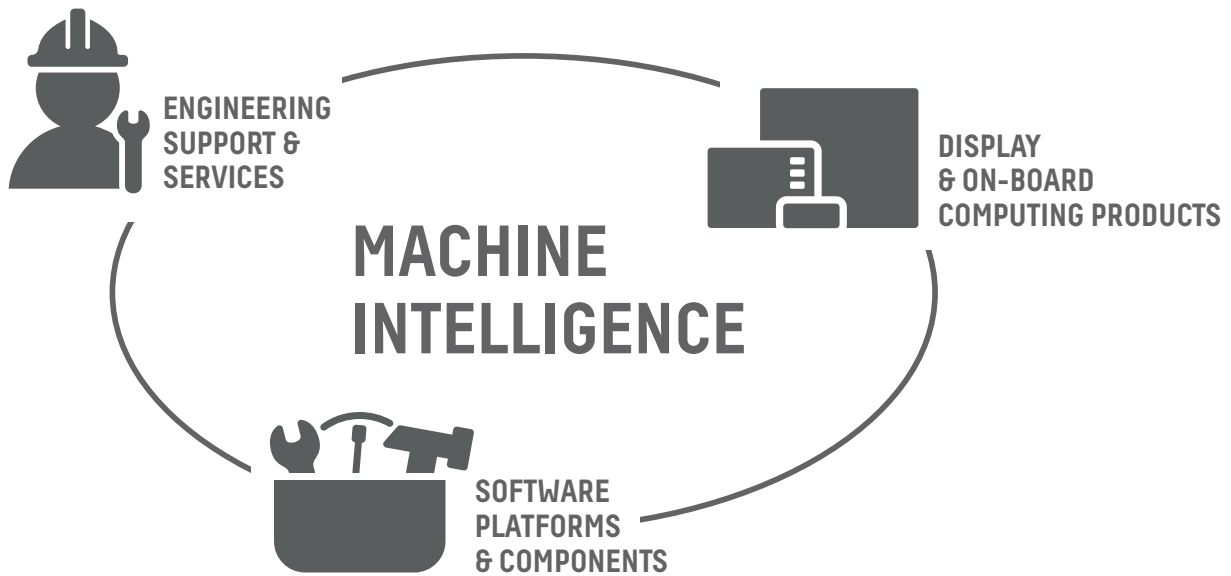
Photo by: Ditch Witch

COMPANY PROFILE

CROSSCONTROL SUPPORTS CUSTOMERS IN MAKING INDUSTRIAL VEHICLES AND MACHINES SMARTER, SAFER, AND MORE PRODUCTIVE. THROUGH OPERATIONAL EXCELLENCE AND ENGINEERING EXPERTISE, WE ARE A TRUSTED PARTNER FOR CUSTOMERS ACROSS THE WORLD.

CrossControl started as a design house in 1991, supporting a number of heavy equipment OEMs in adopting CAN and electronic controls technology. The business has developed into a provider of platforms for machine intelligence including, displays and on-board computers, software platforms and engineering support for industrial vehicle control and information systems.

SERVING CUSTOMERS GLOBALLY FOR MORE THAN 30 YEARS

● CROSSCONTROL
● PARTNERS

MACHINE INTELLIGENCE

ENGINEERING SUPPORT & SERVICES

DISPLAY & ON-BOARD COMPUTING PRODUCTS

SOFTWARE PLATFORMS & COMPONENTS

HMI AND ON-BOARD
COMPUTING PLATFORM

WITH STATE-OF-THE-ART HARDWARE, POWERFUL SOFTWARE TOOLS AND ENGINEERING SUPPORT SERVICES, CROSSCONTROL OFFERS A COMPLETE PLATFORM FOR HMI AND ON-BOARD COMPUTING SOLUTIONS.
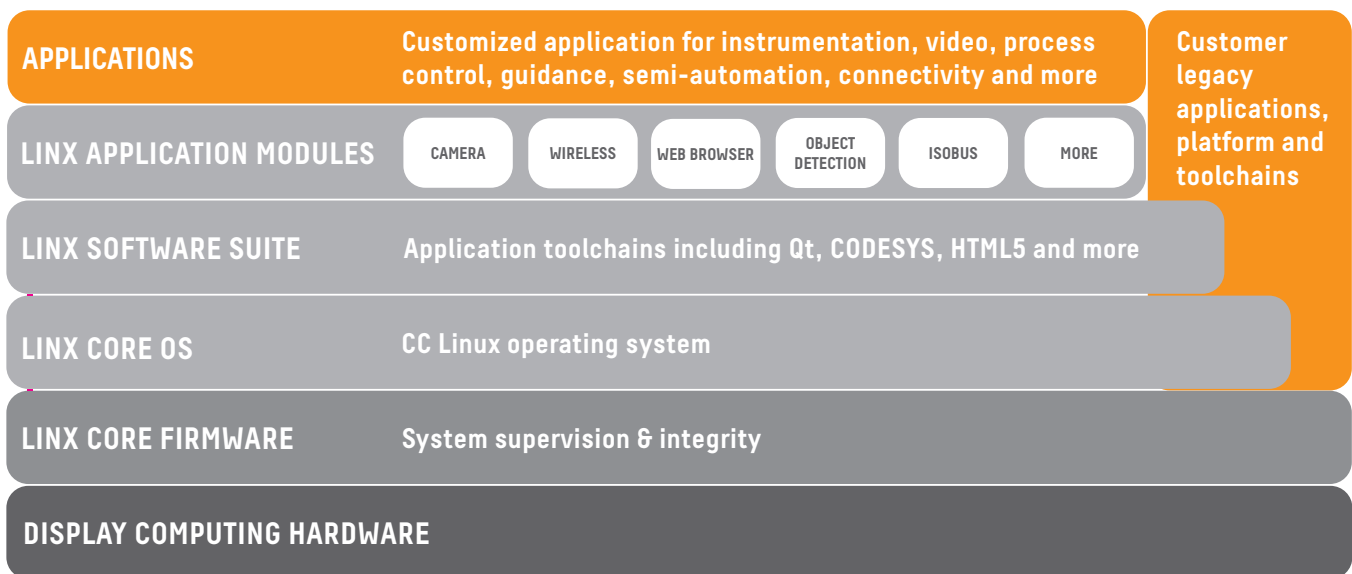
CCPILOT DISPLAY COMPUTERS

Our wide portfolio of display computing hardware is engineered to satisfy a broad range of applications. It features displays in sizes from 3.5'' to 14'', ARM & x86 computing cores and a wide choice of wired and wireless interfaces. It includes displays with integrated application processors as well as domain controllers that drive several monitors. With common software toolchains and software modules, applications are easily deployed across different products in the portfolio.

CrossControl products manage demanding environmental conditions, coping with wide temperature ranges and exposure to dust, water and dirt. Product quality standard is best illustrated by the warranty returns KPI of less than 0,1%.

APPLICATIONS	Customized application for instrumentation, video, process control, guidance, semi-automation, connectivity and more	Customer legacy applications, platform and toolchains
LINX APPLICATION MODULES	CAMERA WIRELESS WEB BROWSER OBJECT DETECTION ISOBUS MORE	
LINX SOFTWARE SUITE	Application toolchains including Qt, CODESYS, HTML5 and more	
LINX CORE OS	CC Linux operating system	
LINX CORE FIRMWARE	System supervision & integrity	
DISPLAY COMPUTING HARDWARE		

LINX SOFTWARE PLATFORM

LinX is a modular and open software platform that runs on all CrossControl display computing products and offers customers optional paths for realising systems. Through its modularity it is a platform for realising a wide range of HMI and operator support functionality, including instrumentation, process control, guidance, video and more.

LinX Core includes our own version of Linux and all the necessary firmware to manage system integrity and device settings.

LinX Software Suite is a well packaged toolchain for developing applications. Developers can choose between optional tools like Qt Creator, CODESYS, HTML5 and more.

The LinX modules can be added to any application, at either the OS or application level, to help speed up development and accelerate time to market. Module examples include functionality for wireless connectivity, camera integration, screen mirroring and more

ENGINEERING SUPPORT

CrossControl has a team of 70 engineers with a passion for customer solutions. We are a trusted partner, supporting customer projects success.

As experts in CrossControl products and platforms we provide qualified Field Application Engineering support augmented by subject matter experts in electronics design, testing, Linux system design and Qt development. We also support customers with software application development services.

With a certified and proven development process, our engineering team develops state-of-the-art standard product platforms as well as customized solutions for large customer programs based on our technology platform.
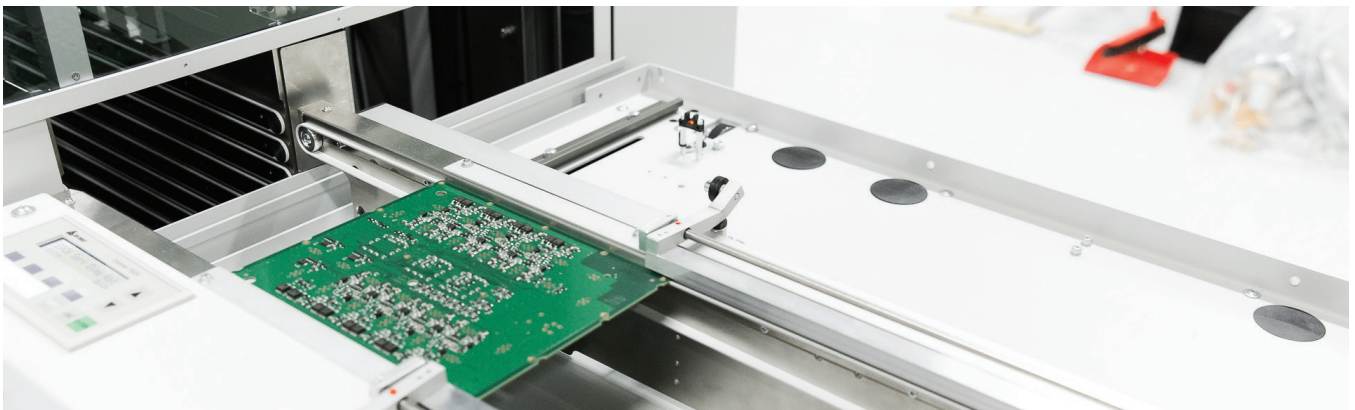
MODULAR TECHNOLOGY PLATFORM

WE CONTINUOUSLY INVEST IN OUR TECHNOLOGY PLATFORM, APPLYING AND VALIDATING NEW TECHNOLOGY MODULES THAT HELP CUSTOMERS ADD FUNCTIONALITY AND VALUE IN THEIR VEHICLE SYSTEMS.

On the hardware level we apply a modular architecture. With this approach, components can be developed and validated independently of each other, and the platform can be continually updated to incorporate the latest technology. A common software platform means that content can be reused across the entire range and prebuilt modules provide functionality that customers can integrate with their application project.

With the platform approach, technical risks are reduced and the time to realize a product is shortened. Also, functional prototypes can be derived fast from the platform, supporting early proof-of-concept studies and ability to develop software and hardware in parallel.

SUPPORTING VEHICLE CONTROL PRODUCTS

CROSSCONTROL OFFERS RUGGEDISED I/O CONTROLLERS & COMMUNICATION DEVICES.

The portfolio includes freely programmable I/O controllers for hydraulics, worklight and DC actuator control. Dedicated gateway devices offer freely programmable connectivity solutions and telematics.

WORLD-CLASS OPERATIONS

DEMANDING CUSTOMERS REQUIRE OUTSTANDING OPERATIONAL PERFORMANCE.

Our operations are consistently rated with high scores by customers and we are open to audits as part of the validation process. Besides strong delivery and quality metrics, customers praise our Total Quality System, featuring extensive performance measurements with reviewable KPIs and methodologies, and deployed continuous improvement tools like 8D and FMEA. The business is certified to ISO9001 and ISO14001.

Our 62,000 sq. ft. production plant in Alfta, Sweden, is highly automated and all workflows are digitized. The facility houses an automated warehouse and a modern SMT facility with state-of-the-art Pick and Place machines and Automatic Optical Inspection. Products are assembled and tested by a knowledgeable, highly skilled staff with traceable quality all the way through production.

ON-TIME DELIVERY
>98%

ZERO MILE DEFECTS
<100 DPPM

CROSSCONTROL SUPPORTS OEMS AND SYSTEM SUPPLIERS IN MAKING INDUSTRIAL VEHICLES SMARTER, SAFER AND MORE PRODUCTIVE.
WE OFFER A PLATFORM FOR MACHINE INTELLIGENCE THAT INCLUDES A WIDE PORTFOLIO OF HARDWARE, SOFTWARE AND SERVICES.

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