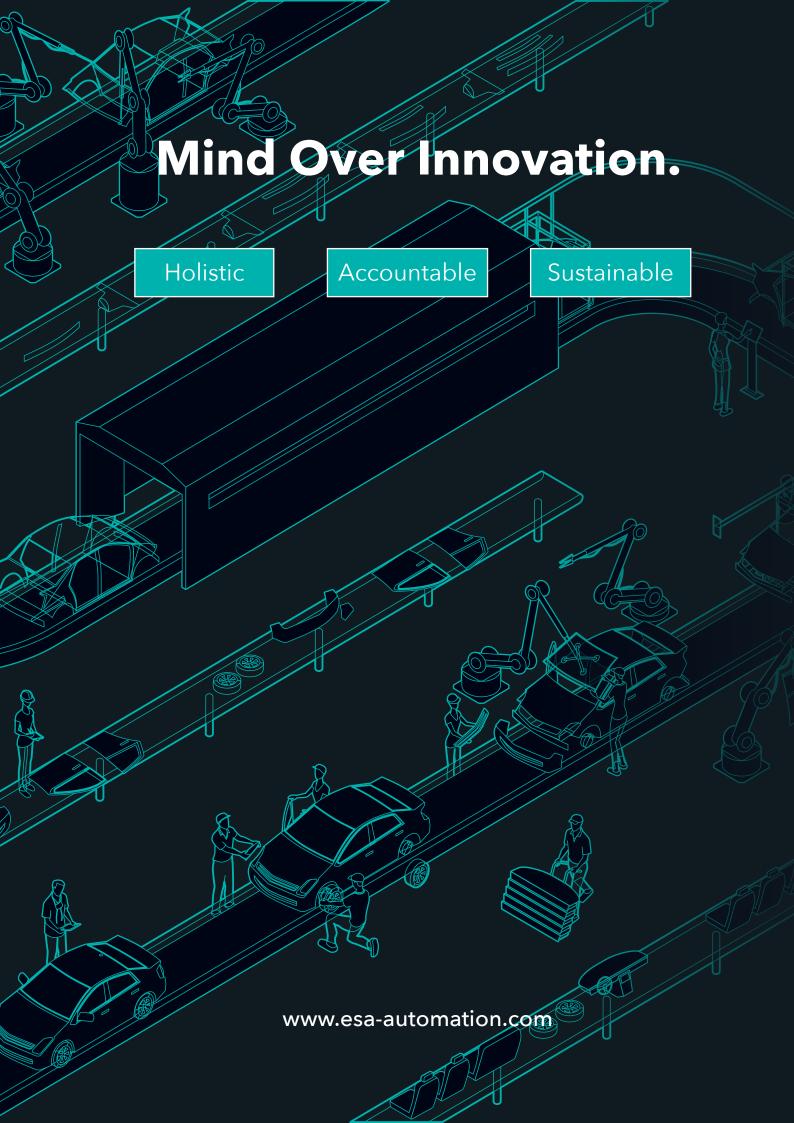


Mind Over Innovation.



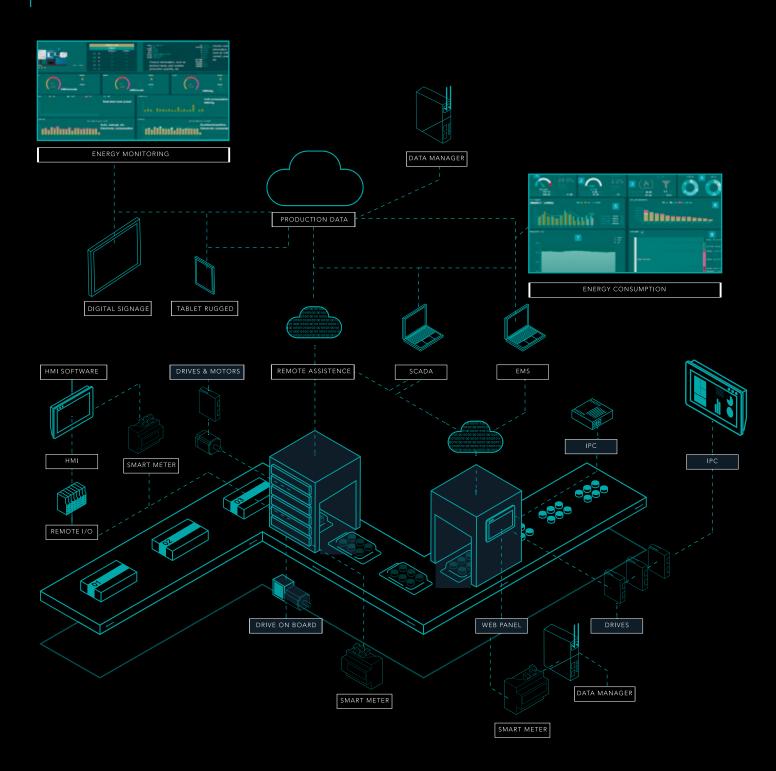
00000



Headquarters & Branches Production & Developement center ISO 9001:2015 **SINCE 1994** + Italy + Germany + Spain + India + China

Digital Automation Mechatronic Innovation

IT meets OT



Markets





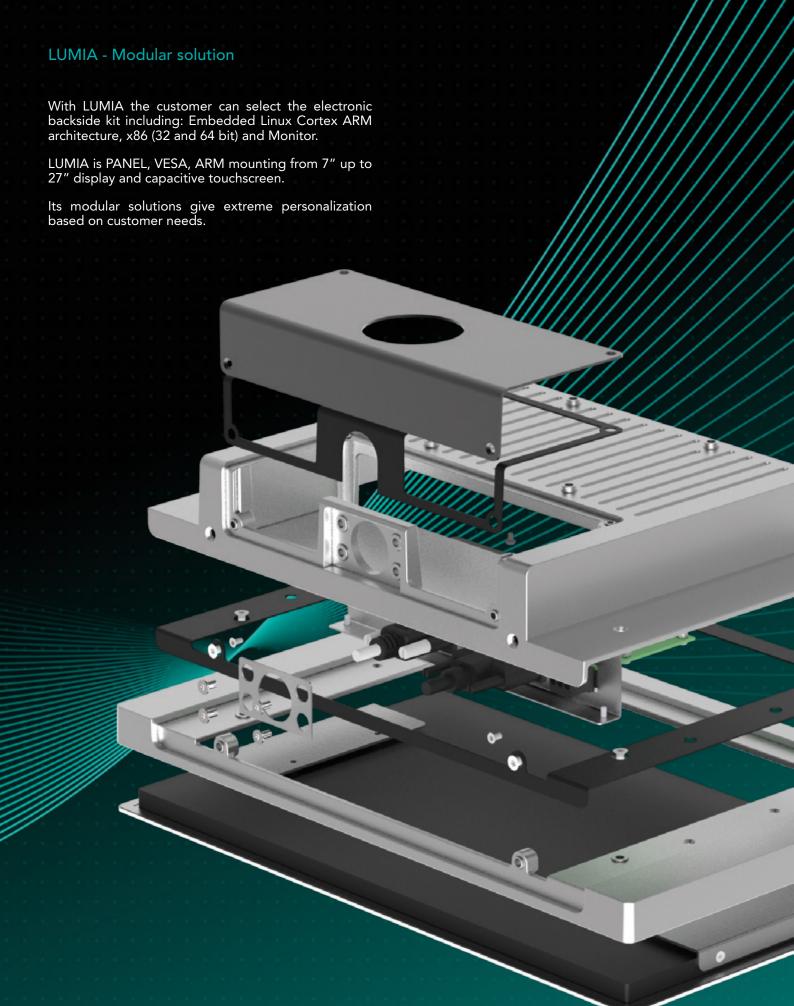
Motion & Turnkey Applications

- + Axes Interpolation
- + Flying cut
- + Waterjet
- + Glass
- + Tooling
- + Robotic
- + Laser
- + Stone
- + Metal
- + Woodworking
- + Plastic



Lumia

PANEL | VESA | ARM Solution



DISPLAY SOLUTIONS

7" Panel



15.6" Vesa |Panel | Arm



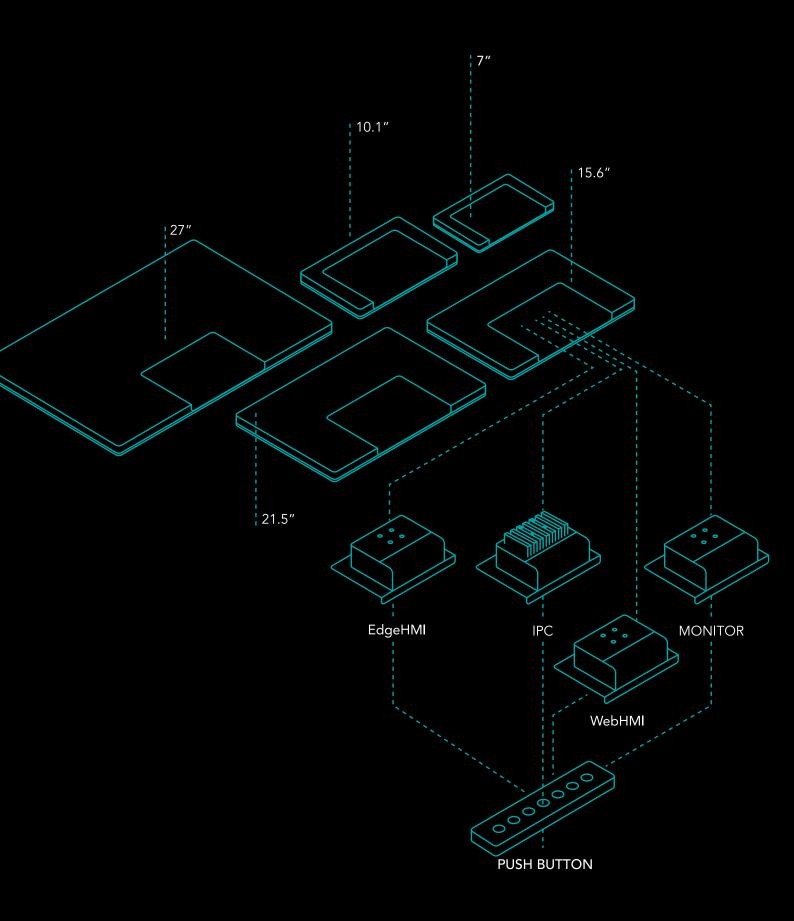
27" Vesa |Panel | Arm 10.1" Vesa | Panel



21.5" Vesa |Panel | Arm



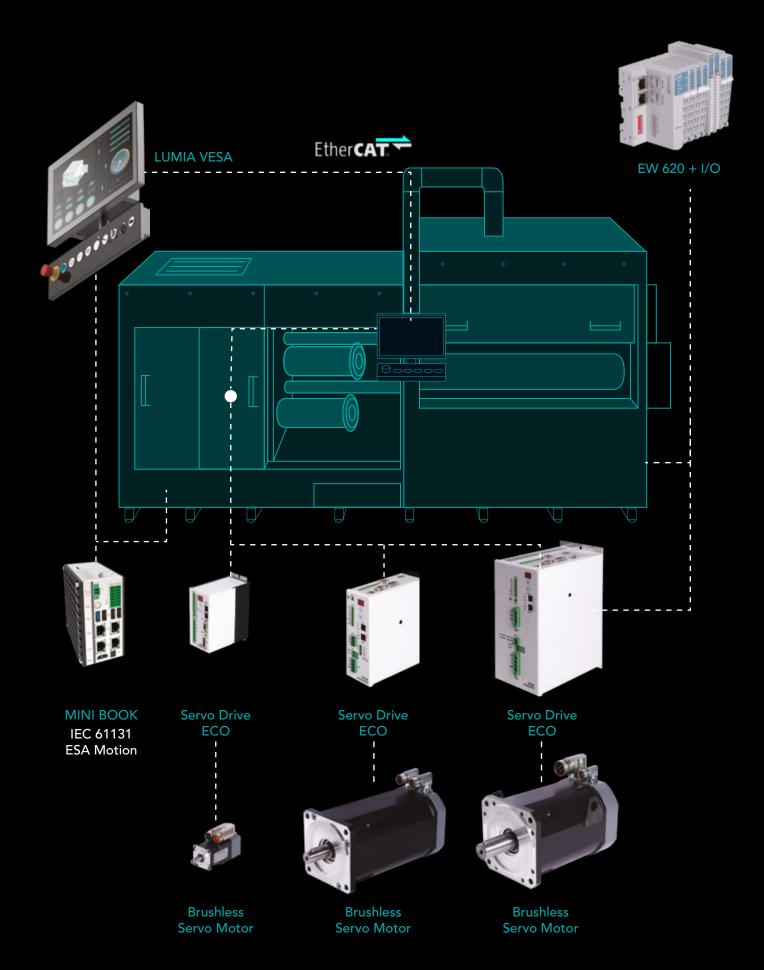






Kreo HMI

- + IEC61131
- + ESA Motion Control Library



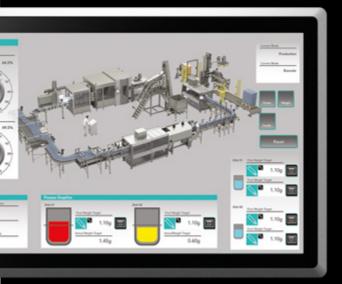


PANEL

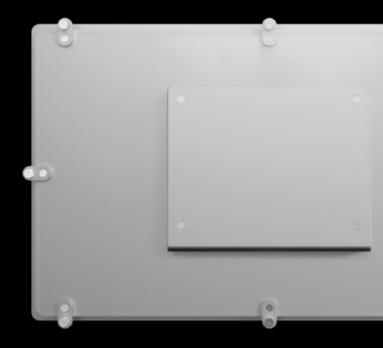


- + Multi touch technology
- + True flat glass capacitive touch screen
- + Hygienic front design IP66



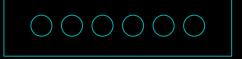


Front view



Rear view

+ Configurable panel push button keyboard



6x1



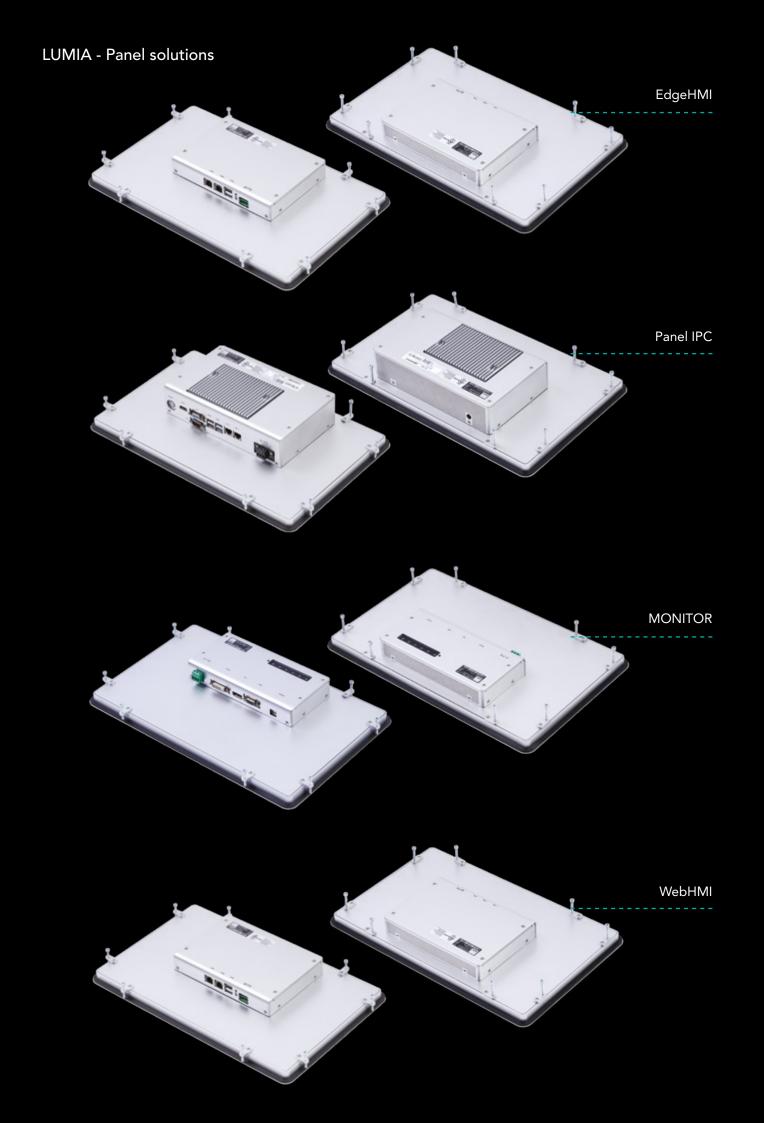
5x2



10x1



1x1





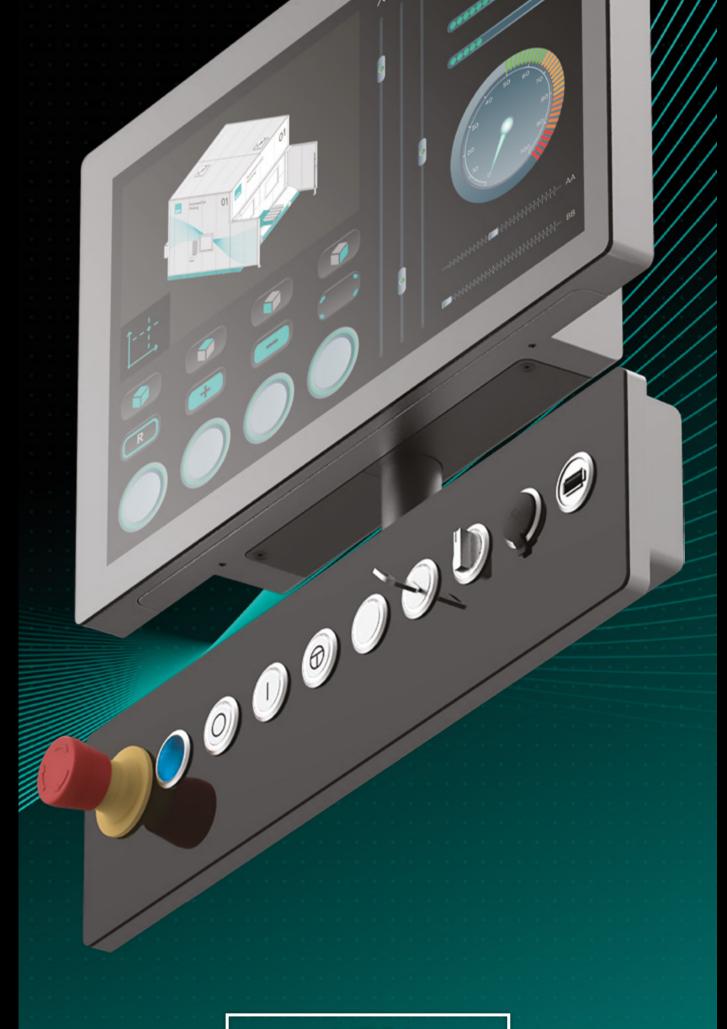
+ Fixing - Smart Block

The SmartBlock to fixing system is designed to help the operator install the product in a simple way.

Thanks to the knurled pins it will be possible to prefix the product using your fingers and then tighten the product to the panel with a tool.

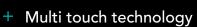






VESA







Hygienic design full IP66 Front/Back for

all sizes: 10,1", 15,6", 21,5" and 27".

















- + Vesa Keyboard 120° ergonomic solution
- + Vesa Keyboard 180°



ARM



- + Integrated mounting with alluminium arm and IP66 protection all around.
- + Large portfolio of arm components; the user can define the connection layout that fits the application.
- + Simple and smart cabling thanks to the large backside access.
- + Up to 11 front slots for standard 22 mm electromechanical pushbuttons and indicators.
- + Optional hand held and keyboard support.







15.6"

EdgeHMI Panel IPC Monitor WebHMI





21"

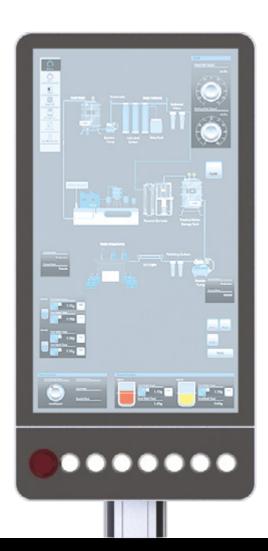
EdgeHMI Panel IPC Monitor WebHMI



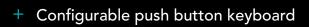


27"

EdgeHMI Panel IPC Monitor WebHMI











MINI BOOK

MINI BOOK







High performance, compact, fanless IPC box based on Intel Celeron J6412 or more powerful 11th generation i3 and i7.

The integrated Mini PCIe slots allow the user to expand the connection possibilities (Wi-Fi, Bluetooth, 4G, GPS) for easy integration into any Industry 4.0 application. Up to 6 LAN ports (2 in the basic module and 4 in the additional one) with different Ip addresses for a very smart and powerful internetworking topology.

Kreo Edge runtime for the development of web based visualization and control.

Kreo Connect runtime for remote visualization and technical support.

FEATURES

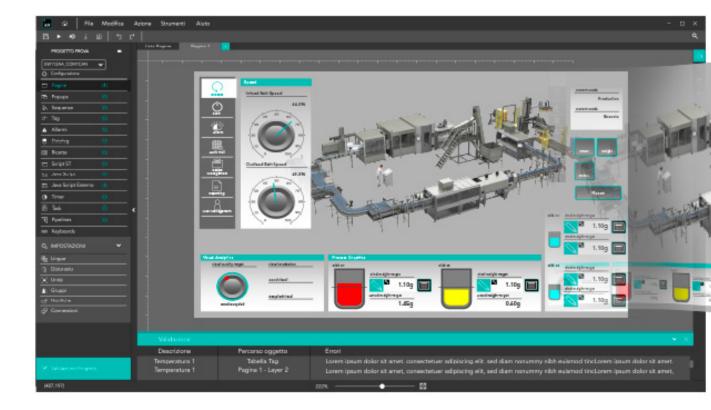
- + Operating system Windows 10 IoT W11 Linux
- + 2 embedded LAN ports
- + 4 additional LAN ports integrated in the optional module
- + 8 integrated DI/DO
- + RAM up to 64GB
- + SSD up to 2TB

APPLICATIONS

- + Packaging machine
- + Plastic and rubber machine
- + Steel and wood
- + CNC
- + Food processing
- + Rbotics
- + Digital signage
- + Traffic control

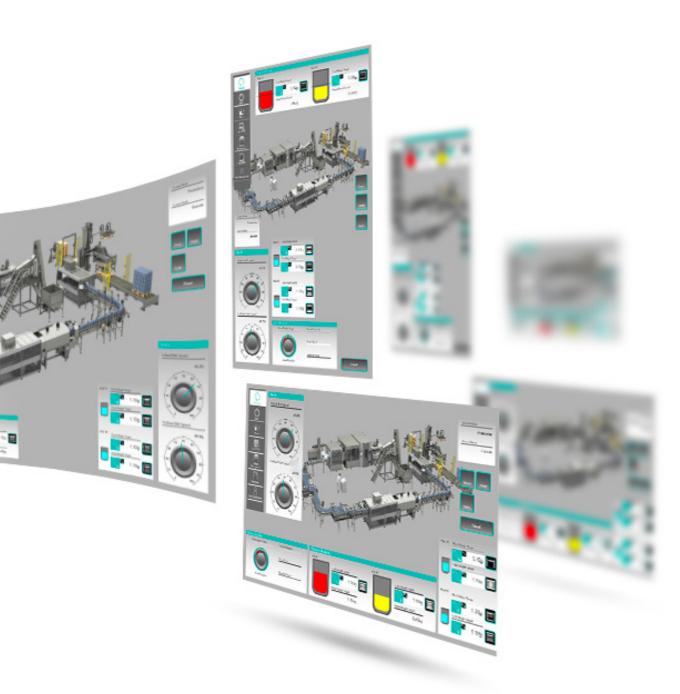


ESAWARE SUITE











Kreo HMI



Software platform that makes the engineering and development of web based visualization and control center solutions extremely easy. Kreo HMI

Both Linux and Windows based target devices are supported.



Integrated production report with edit and run time filtering.

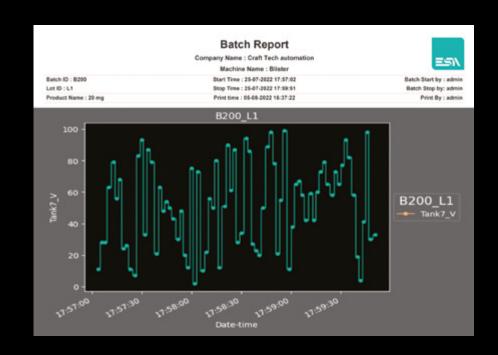
Advanced debug of the application with integrated monitoring of the edge tasks and edge to web dataexchange.

IEC 61131 script online debug with breakpoints, step increment and variable watch window.

Smart recipe management with structure and archive online update.

Libraries

- + Library management
 - Static graphic objects
 - Animated objects
 - System widget
 - Project widget
 - ST and Java script
 - Responsive container
- + SVG based libray objects
- + Sharing and reusing



Kreo HMI Runtime

EdgeHMI

- + Communication drivers
- + Field data collection
- + Data aggregation
- + Elaboration

WebHMI

- + Visualization
- + Simple and smart User Interface



External Javascript



Multi touch and gestures



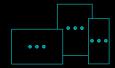
+ + WebPage technology - Full HTML 5



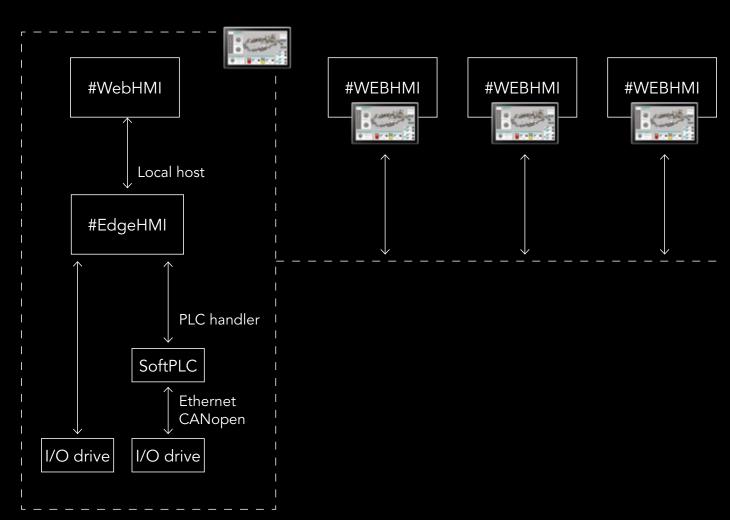
Integrated PDF reader and Video player



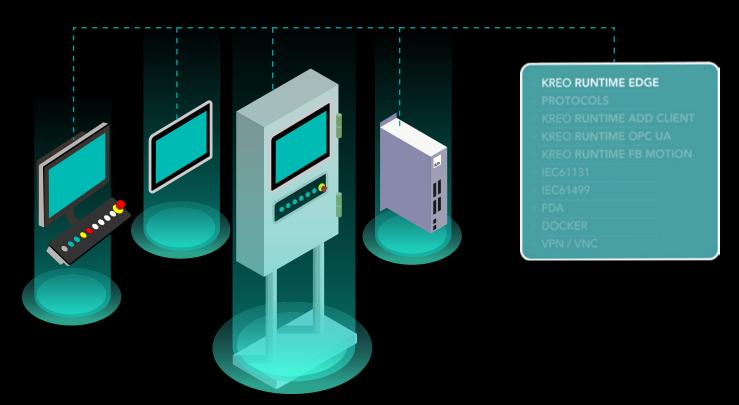
+ ST Script - IEC61131



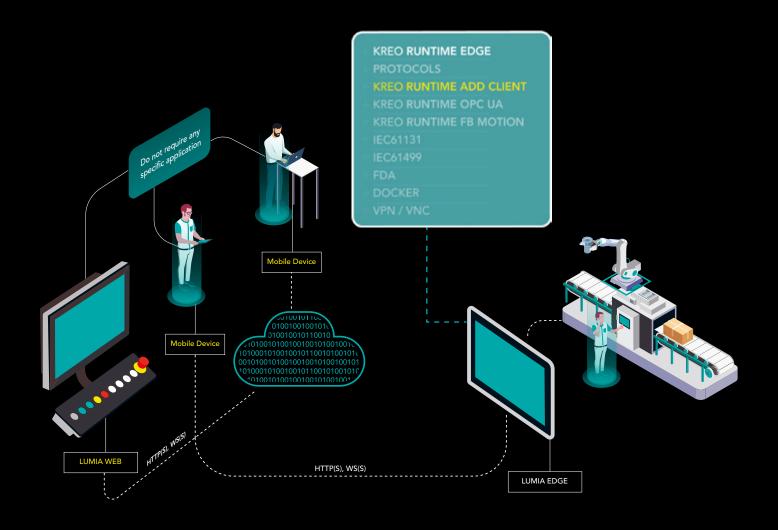
+ Responsive design



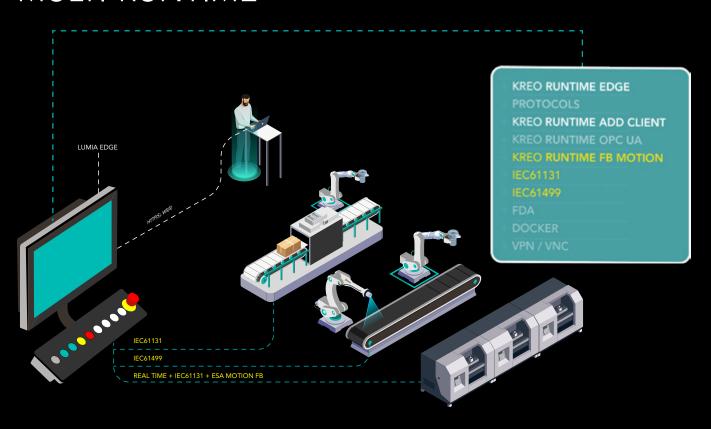
LOCAL CLIENT - LUMIA EDGE

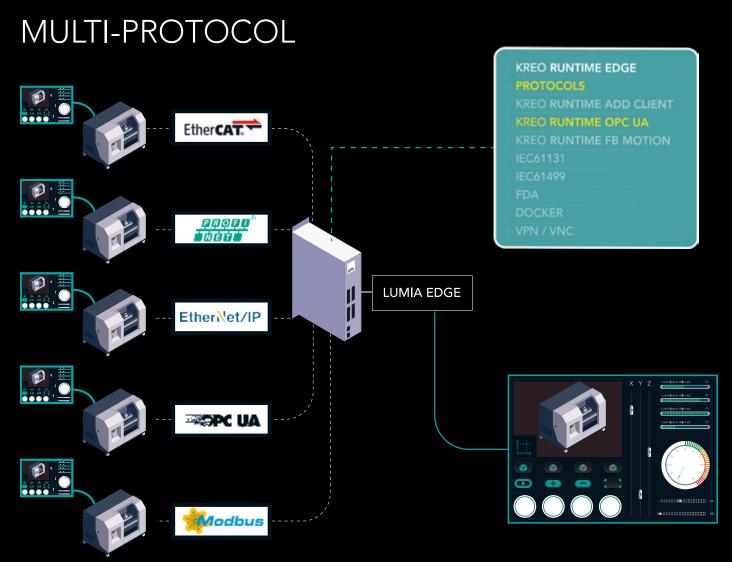


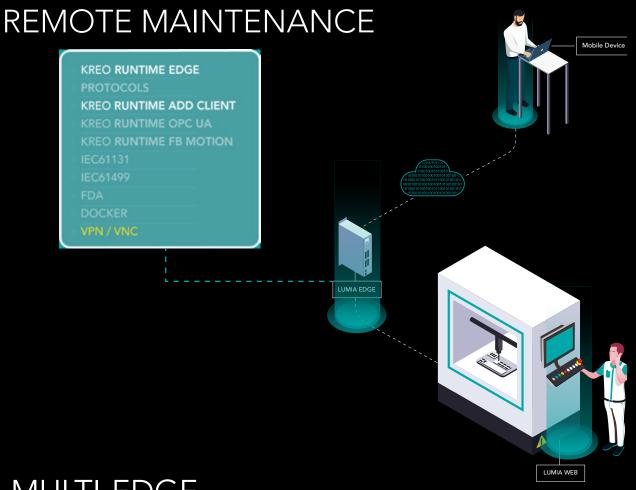
MULTI-CLIENT



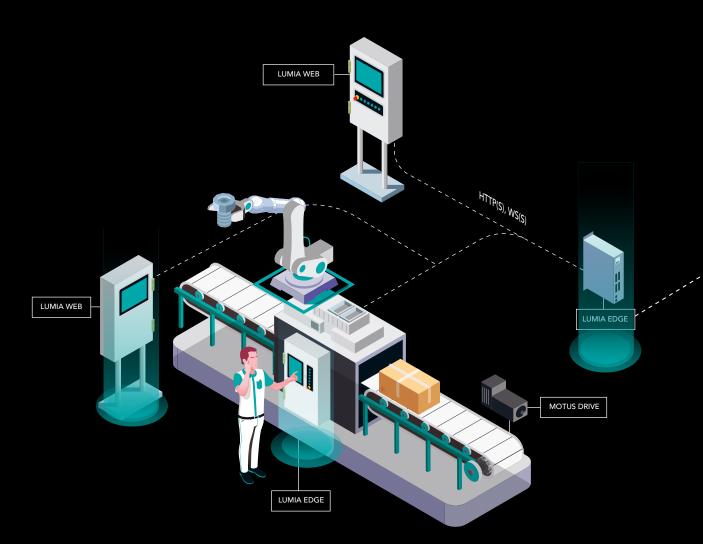
MULTI-RUNTIME





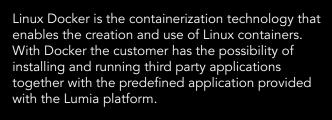


MULTI-EDGE



docker

DOCKER CONTAINERS



KREO RUNTIME EDGE

PROTOCOL!

KREO RUNTIME ADD CLIENT

REO RUNTIME OPC UA

KREO RUNTIME FB MOTION

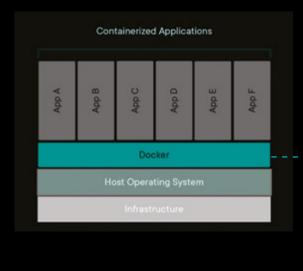
IEC61131

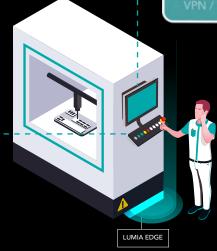
IEC61499

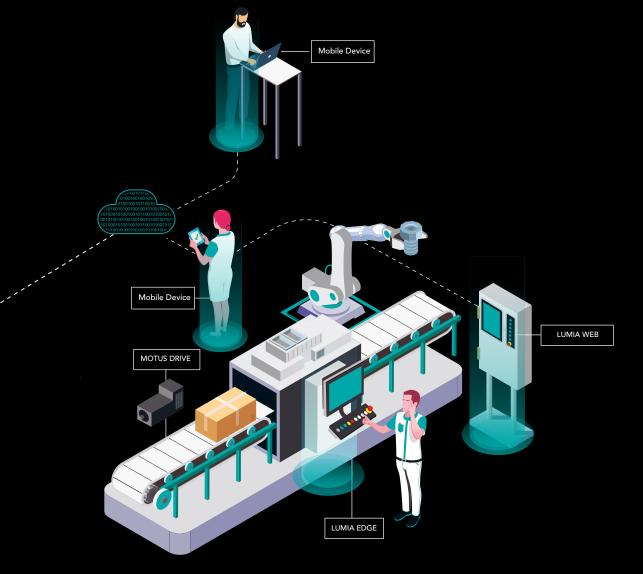
FDA

OCKER

PN / VNC







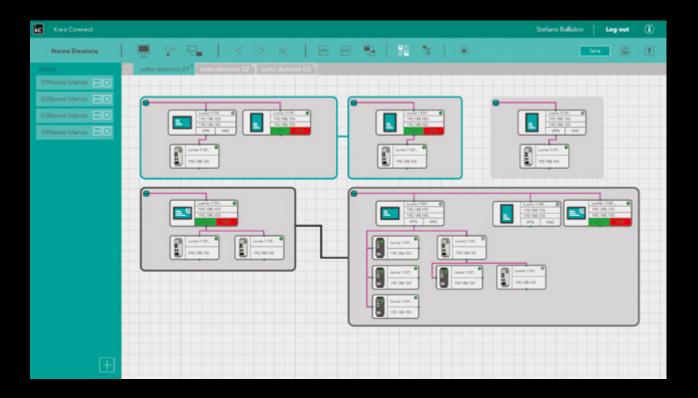
Kreo Connect



Easy, secure and efficient access to the machine anywhere and anytime in order to provide high level support.

The machine builder service team can improve the support activities reducing dramatically reducing both the response delay and the cost. The support engineer having a standard internet connection can access the control unit, the HMI and all the devices connected to the OT network.

The debug and fix of the application is almost immediate.



Cross platform application available for Windows and Linux OS.

Remote desktop allows to lock the remote input to avoid remote operators working on the HMI while during maintenance operations.

VPN traffic is routed to multiple devices of the OT local network so it is possible to establish the VPN tunnel with the complete machine network.

The domain can manage an unlimited number of endpoints, an unlimited number of Users and Groups and unlimited traffic.

Allows the creation of domain and subdomains. This architecture let the machine builder to provide the required access to the customer assigning required privileges.

- + Preinstalled in all LUMIA lines of products
- + Cloud based solution for maintenance and data collection
- + No need of modifying any firewall policy nor IT configuration
- + Based on standard https protocol
- + Remote desktop, file transfer, chat
- + VPN for the online debugging and application update
- + TLS 1.2 security protocol for the highest security level

KREO SVG CONVERTER

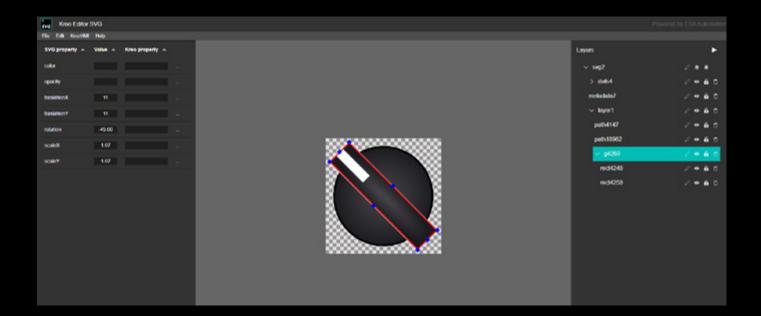
Create your own SVG graphics library by yourself.



Kreo SVG Converter

KREO SVG CONVERTER is the utility that allows the user to develop the graphic libraries of Kreo HMI starting from a generic SVG object.

The object can be developed by a graphic studio or downloaded directly from internet. There is no limitation; any object can be animated and inserted in a Kreo HMI library. The user interface of KREO SVG CONVERTER is totally graphic and it is not necessary to write any HTML5 source code.



- + Fully web based utility continuously updated
- + Only a simple registration on the ESA website (www.esa-automation.com) is required
- + A powerful SVG editor is included that allows the user to group the graphical layers
- Definition of Kreo properties with association to the SVG layers
- + Different animation possibilities (translation, rotation)
- + Color management of the different levels



Mind Over Innovation.



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