



“You choose your **HW**,
we make it a **control!**”

OSAInc enlarges the horizons of numerical control philosophy by launching a **software CNC**.

As a **full SW abstraction** of the numerical control, Chronosoft consists in a **complete porting** of all OPENcontrol family software, indeed realtime and HMI functionalities are **unchanged**.

The soft CNC allows to **simplify the HW architecture** and design, by installing the CN software directly on the computer of the customers.

As a consequence, a **cost reduction** related to HW is feasible.

-  Fully software-based CNC
-  Ready for installation on IPCs
-  Dual-OS architecture for real-time control
-  Communication based on EtherCAT
-  Reduced components and cabling complexity

Product characteristics

The product basic characteristics and general architecture are reported hereafter.

CHARACTERISTICS	TYPE / QNT
COMMUNICATION	EtherCAT 
CONFIGURATION	Dual Operating System (enabled by the hypervisor)
MACHINING TICK [MS]	2
AXES NUMBER	+15



A complete OSAlcnc Operator Panel

Together with ChronoSoft and OSAlcnc products, you can achieve a compact, minimalist solution for a complete operator panel. Thanks to ChronoSoft, wiring is reduced and the various electric components can be optimized.

NG Industrial Monitor + EtherCAT Control Panel



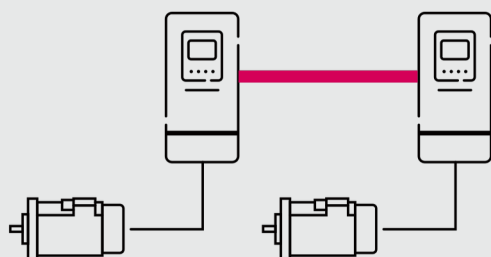
- Full flat 21" screen with 16:9 aspect ratio
- Capacitive Touch
- High contrast

IPC 109A



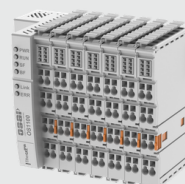
- CPU Intel® i3
- 8Gb RAM
- 128 Gb SSD

Drive/Motor



Supported all standard EtherCAT drives and motors

OPENxIO Pro



- Fully modular
- Many available modules

HDMI

EtherCAT



OSAI Certified IPC

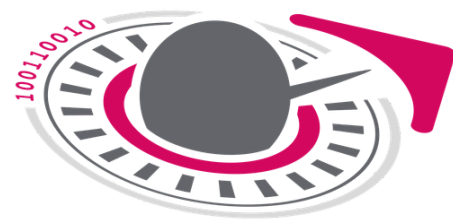
This IPC model has already been certified by OSAIcnc.

With this IPC, no preliminary verification or configuration by OSAIcnc is required.



CHARACTERISTICS	IPC 109A C-IPC109A-0812800000-i3
CPU	Intel® Core™ i3-10110U up to 4.1 GHz
RAM MEMORY	8GB DDR4
STORAGE	128GB mSATA SSD
POWER SUPPLY	12V DC (9V to 36V DC possible)
I/O PORTS	1 x HDMI (1920x1200 @30Hz) 1 x VGA (1920x1200 @30Hz) 2 x LAN Intel® i210 10/100/1000Mbps 4 x USB 3.0, Type A 2 x USB 2.0, Type A 2 x RS232 1 x RS485
OPERATING SYSTEM	Windows 11 IoT Enterprise LTSC 64bit
CASE	Aluminum chassis with fanless design
DIMENSIONS	195x160x47 mm
WEIGHT	1,5 Kg
OPERATING TEMPERATURE	0÷50 °C
STORAGE TEMPERATURE	-10÷60 °C





Minimum IPC Requirements

If a customer is already using a specific IPC, it is still possible to install ChronoSoft.

However, certain minimum specifications must be met in order for ChronoSoft to be installed and function properly. The following table lists the minimum requirements that must be met.

CHARACTERISTICS	REQUIREMENT
CPU	Intel® Core™ i3 or higher; i5 preferred (see *1)
CPU CORE	4 or more
BIOS	UEFI
RAM	8 GB
10/100/1000 ETHERNET PORTS	2 minimum, 3 recommended (see *2)
ETHERNET TYPE	Intel-based
STORAGE	128 GB
SUPPORTED OS	Windows 11

Note 1 - CPU

One CPU core is dedicated to ChronoSoft. Windows 11 performance heavily depends on the remaining available cores. The processor type selection has a critical impact on the non-real-time applications that can be run on the Windows side.

Note 2 - EtherCAT port

One of the IPC LAN ports is used for the EtherCAT fieldbus. The second port can be used for internet connectivity. A third port is recommended for connecting third-party devices that communicate over Ethernet, such as webcams.