OMRON

Omron
Customer
Software HMI
Selection Guide

Selection guide for choosing the appropriate software HMI platform.

.

Omron Software Visualization Alternatives

Machine visualization can be done via dedicated hardware such as the Omron NA5, NB, NYE series HMI, but Omron also has a full range of software based HMI. One of these software solutions may be a better choice for certain applications, such as those where other manufacturing software needs, besides the HMI function needs to be available.

Soft NA, w/dongle

Soft NA, part number is a virtual version of the NA5 series of dedicated machine HMI. Screens are developed using Sysmac Studio. Applications developed in Soft NA are portable to the dedicated NA5 series of hard HMI. Soft NA can be used by the customer who want the machine HMI on an IPC or it can be used in place of the NA5 series dedicated HMI. Soft NA Part numbers are licensed with a USB dongle.

Number of licenses	Media	Part Number	Licensing
- (Media only	DVD, Download	NA-RTSM	None
1 license	DVD, Download	NA-RTLD01	USB Dongle
3 licenses	DVD, Download	NA-RTLD03	USB Dongle
10 licenses	DVD, Download	NA-RTLD10	USB Dongle

Soft NA Download Link on OmronNow

https://assets.omron.com/m/43453cb808831b89/original/Soft-NA-Installer-V1-02.zip

Soft NA will run on any IPC or PC with the following minimum specifications.

Item	Requirement
Operating System	Windows 10 Pro version or later 64 bit
Processor	Intel Atom® x5-E3940 equivalent or higher processor
Random Access Memory (RAM)	4GB or more
Free space in the hard drive necessary for installation	1 GB or more
Communication port	USB2.0 Type-A x 2 *1
	Ethernet x 2 *1

*1. Since one port is for project transfer, it is not required unless the corresponding path is used

See Soft NA here:

https://automation.omron.com/en/us/products/family/Soft%20NA

NS Runtime

NS-Runtime is a virtual version of the NS series of dedicated HMI. Screens are developed using CXONE/CX Designer software and brings all the features and capabilities of the NS-Series advanced touch screen directly to your PC or IPC, with the additional convenience and functionality of a PC. Access PLC and other automation data side-by-side with machine documents, manuals, videos or programs.

NS-Runtime can be an alternate solution for customers that have been using the hardware based NS series HMI which was discontinued in February 2022 due to part shortages. Customers, in most cases, can take their existing hardware based NS HMI applications and run them on an IPC or PC hosting NS Runtime. NS-Runtime part numbers are licensed with a USB dongle that ships from the warehouse, Note: In some cases applications developed for the hardware based NS-Series of HMI will need to be downgraded to run on NS-Runtime software. Consult your local Omron FAE.

Number of licenses	Media	Part Number	Licensing
1 license	DVD	NS-NSRCL1	USB Dongle
3 licenses	DVD	NS-NSRCL3	USB Dongle
10 licenses	DVD	NS-NSRCL10	USB Dongle

NS-Runtime will run on any IPC or PC with the following minimum specifications.

Item	Specifications
Operating System	Windows 7 (32-bit/64-bit version)/Windows 8 (32-bit/64-bit version)/Windows 10 (32-bit/64-bit version)
CPU	Celeron, 1.3 GHz or higher (Recommended)
Memory size	HDD: 50 MB min., RAM: 512 MB min. (Windows 7: 1 GB min.). 50 MB is required for the Runtime alone. (An additional 280 MB is required if CX-Server is not already installed.)

See NS Runtime here:

https://automation.omron.com/en/us/products/family/NS%20Run%20Time

Aveva Edge

Omron AVEVA Edge is an easy-to-use, powerful, and affordable HMI/Supervisory Control And Data Acquisition (SCADA) software with a custom tag/variable-based driver set for Omron controllers and devices. An IoT/Industry 4.0 solution for Omron industrial PCs, industrial panels as well as embedded and mobile devices. Aveva Edge runs on an IPC or a PC and will provide a high function HMI to Omron controllers as well as most other controllers and devices available. OMSGY prefix part number come with Omron Compolet driver set for superior interface to the CS/CJ-NJ/NX controllers as well as other controllers and devices. EDGE and IND prefix parts are available which will provide a high function HMI to Omron controllers as well as most other controllers and devices available but lacks the Omron Compolet driver set for superior interface to the CS/CJ-NJ/NX controllers.

Why not use Aveva Edge for all controller HMI interface? HMI software running on and IPC or PC are still vulnerable to malware and ransomware and have the same issues all PCs have such as operating system compatibility, blue screen failures. Many customers would rather have a "closed" HMI system to avoid these issues.

Aveva Edge is sold based on numbers of "Tags" serviced by the controller and HMI. And has a wide range of part numbers to choose from.

Aveva Edge will run on the most basic IPC or PC, but the more tags and devices Aveva Edge is required to support, the more powerful the IPC or PC will need to be. Bring in your local Omron FAE to help select the IPC for Aveva Edge based on the application.

See Aveva Edge Here:

https://automation.omron.com/en/us/products/family/Omron%20AVEVA

CX Supervisor

CX Supervisor is an Omron developed SCADA system. Since it is developed by Omron, it has a superior interface to Omron controllers. CX-Supervisor V4 communicates with a whole range of cutting-edge (as well as older) devices, including Omron's entire range of PLCs, motion devices, temperature controllers and sensors. Designed specifically for PC-based machine visualization, CX-Supervisor V4 is perfect for any PC including Omron's robust and high-quality NY series purpose-built touchscreen IPC.

CX-Supervisor is offered in Machine edition for up to 15 devices (PLCs, motion devices, etc.) and up to 500 tags or data points. CX Supervisor Plus will support a higher level of devices and tags based on the power and capability of the IPC or PC used as the host.

Product selector		
Name	Description	Part Number
CX-Supervisor Development Package	Development program and runtime for testing. Does not include a runtime dongle. Includes 12 months free maintenance and upgrades.	CX-SUPERVISOR-V_
CX-Supervisor Development Upgrade Package	Upgrade for the Development program and runtime for testing. Does not include a runtime dongle. Includes 12 months free maintenance and upgrades.	CX-SUPERVISOR-UPGR-V_
CX-Supervisor Runtime Machine Edition	CX-Supervisor runtime DVD media including Machine Edition USB dongle.	CX-SUPERVISOR-RUN-ME-V_
CX-Supervisor Runtime PLUS Edition	CX-Supervisor runtime DVD media including PLUS Edition USB dongle.	CX-SUPERVISOR-RUN-PLUS-V_

CX-Supervisor will run on the most basic IPC or PC, but the more tags and devices CX-Supervisor is required to support, the more powerful the IPC or PC will need to be. Bring in your local Omron FAE to help select the IPC for CX-Supervisor based on the application.

See CX Supervisor here:

https://automation.omron.com/en/us/products/family/CX%20Supervisor

OMRON

OMRON AUTOMATION AMERICAS HEADQUARTERS • Chicago, IL USA • 847.843.7900 • 800.556.6766 • automation.omron.com

OMRON CANADA, INC. • HEAD OFFICE
Toronto, ON, Canada • 416.286.6465 • 866.986.6766 • automation.omron.com

OMRON MEXICO • HEAD OFFICE
Ciudad de México • 52.55.5901.4300 • 01.800.386.6766 • mela@omron.com

OMRON ELETRÔNICA DO BRASIL LTDA • HEAD OFFICE
São Paulo, SP, Brasil • 55 11 5171-8920 • automation.omron.com

OMRON ARGENTINA • SALES OFFICE
Buenos Aires, Argentina • +54.11.4521.8630 • +54.11.4523.8483
mela@omron.com

OTHER OMRON LATIN AMERICA SALES
+54.11.4521.8630 • +54.11.4523.8483 • mela@omron.com

Authorized Distributor:

Controllers & I/O
• Machine Automation Controllers (MAC) • Motion Controllers
• Programmable Logic Controllers (PLC) • Temperature Controllers • Remote I/O

Robotics
• Industrial Robots • Mobile Robots

Operator Interfaces
• Human Machine Interface (HMI)

Motion & Drives
• Machine Automation Controllers (MAC) • Motion Controllers • Servo Systems
• Frequency Inverters

Vision, Measurement & Identification
• Vision Sensors & Systems • Measurement Sensors • Auto Identification Systems

Sensing
• Photoelectric Sensors • Fiber-Optic Sensors • Proximity Sensors
• Rotary Encoders • Ultrasonic Sensors

Safety
• Safety Light Curtains • Safety Laser Scanners • Programmable Safety Systems
• Safety Mats and Edges • Safety Door Switches • Emergency Stop Devices
• Safety Switches & Operator Controls • Safety Monitoring/Force-guided Relays

Control Components
• Power Supplies • Timers • Counters • Programmable Relays
• Digital Panel Meters • Monitoring Products

Switches & Relays
• Limit Switches • Pushbutton Switches • Electromechanical Relays
• Solid State Relays

Software
• Programming & Configuration • Runtime