

VARIO X

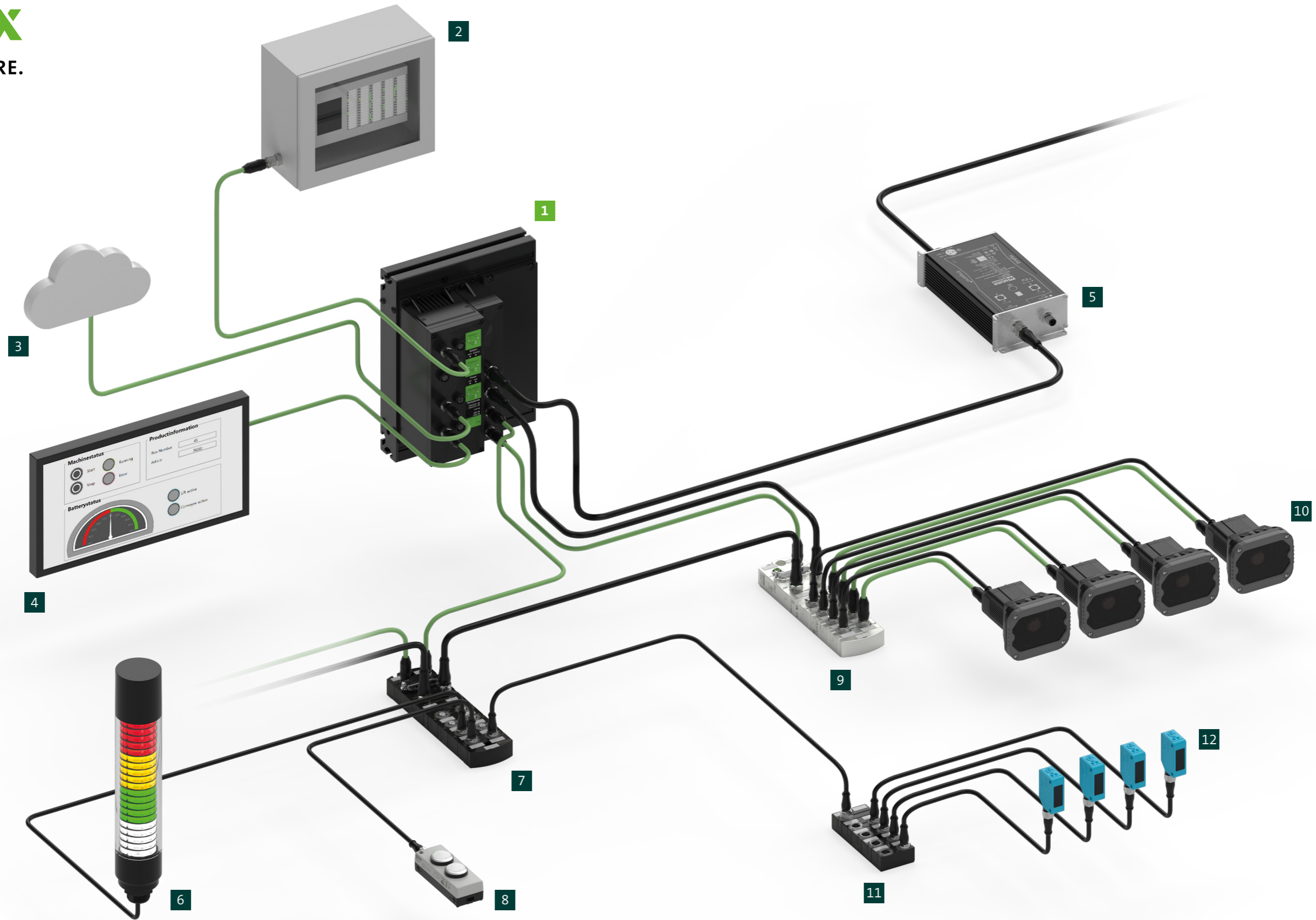
CONNECTED
FUTURE.



Vario-X IPC Simply decentral.

 **MURR**
ELEKTRONIK

stay connected



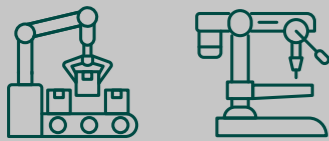
Vario-X IPC Solution – Open for the future

Our control solution combines the best of IPC and PLC to create an open platform that can adapt and grow with your business. By supporting all common network and communication protocols, we open the doors to a new era of automation where flexibility and future-proofing are key.

- | | | |
|-----------------------------|-------------------------------------|------------------------------------|
| 1 Vario-X Controller | 5 Decentralized Power Supply | 9 Hybrid Switch for Cameras |
| 2 Higher-level PLC | 6 IO-Link RGB Signal Light | 10 Vision Sensor |
| 3 Cloud | 7 IO-Link Master | 11 I/O-Hub |
| 4 HMI | 8 IO-Link Push Button | 12 Light Barrier |

Access real-time data and machine status via an app, either via the cloud or direct VPN access, machines and systems can be flexibly monitored and controlled from any location.

Machine 1 – Machine x



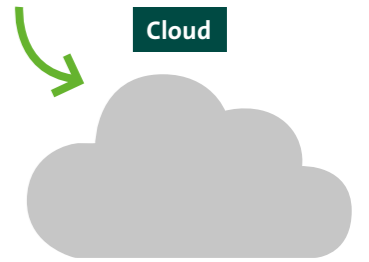
The IPC operates as a control and data collection unit in the direct area of the machine or as an EDGE gateway. When used directly on the machine, the IPC avoids the need for a complex control cabinet thanks to its IP65 protection rating. As an EDGE gateway, the IPC processes data locally before it is transmitted filtered to the cloud, resulting in faster response times and increased reliability.

App



By transferring data to a cloud platform, real-time data can be used efficiently, both for analyses and for apps in the cloud.

Cloud



Direct VPN Access

PLC & EDGE-Gateway



Security: End-to-end encryption in IoT communications provides reliable protection and ensures the privacy and integrity of data.

Technical Features

CPU:	Intel Atom x6414RE (4 x 1,5 Ghz; 1,5 MB cache)
RAM:	8 GB LPDDR4x with up to 4267 MT/s
Flash:	32 GB eMMC 5.1
Memory:	128 GB SSD (optional up to 1 TB)
Memory card:	16 GB micro SD card
Operating system:	Linux Yocto
Software:	CODESYS V3 PLC runtime
Integrated sensors:	temperature, humidity, vibration
Protection class:	IP65

Vario-X CTRL 1000

VARIO-X_CTRL1000-016-128-PN-EC



2x Industrial Ethernet Ports

2x Additional Industrial Ethernet Ports

2x Gigabit Ethernet Ports

1x HMI Port (Ethernet + 24 VDC)

1x Serial Interface

Vario-X FeedIO

VARIO-X_FEEDIO-24VLP5-EC-ETH



1x 24 VDC Input

1x 24 VDC Output

1x EtherCAT Port

1x Gigabit Ethernet Port

Vario-X Backplane 200 mm

VARIO-X_BPC200-5-0001F-SELV



Distribution of protective extra-low voltage, fieldbus and Gigabit Ethernet to the mounted devices.

Integrated machine construction profiles for mounting and using accessories.

Data Storage

Production data and measured values can be stored in databases so that they can be used later, for example, for quality or analysis purposes. If required, important production information can also be retrieved and processed directly from the databases in the Vario-X Controller.



HMI

With visualisation tools such as CODESYS WebVisu, responsive visualisations can be created for every user group. This enables intuitive operation on local HMIs or mobile devices.



EDGE-Computing

The Vario-X controller can be used as an EDGE-Gateway or even as an EDGE-Controller. This enables efficient cloud connectivity through local data pre-processing and aggregation. As a result, IIoT scenarios can be implemented quickly and easily without the need for additional hardware.

Web

Web-based remote access to machine status enables efficient remote monitoring and control of equipment or systems. With easy integration of additional software tools and applications, this solution not only increases flexibility, but also optimises operational efficiency.



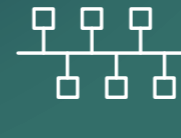
Remote Maintenance

A VPN connection provides secure access to the Vario-X controller and the machines and systems connected to it. This allows easy remote maintenance and support.



Protocols

By supporting all common network and communication protocols, we are opening up a new era of industrial automation in which flexibility and future-proofing are key.



PLC Programming

PLC programming with CODESYS V3 offers an open system solution that supports all standard programming languages and enables object-oriented PLC programming.



Operating Systems

The integrated hypervisor and powerful quad-core CPU enable multiple operating systems to run in parallel. This greatly increases the efficiency and flexibility of your applications.



Services



Programming: Our programming services offer a full range of support, from consultancy to complete programming.



Remote-Service: Our remote service enables us to quickly access your systems when questions or problems arise. We can diagnose the situation immediately and offer effective solutions to reduce downtime and increase your productivity.



Helpdesk: Our dedicated helpdesk team is available 24/7 to answer your questions and provide technical support to keep your business running smoothly.



Field Service: Our qualified team of engineers are ready to provide on-site support when you need it. From installation to maintenance, we are there for you.

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Further information on the Vario-X system can be found at: vario-x.com/ipc





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www.murrelektronik.com

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