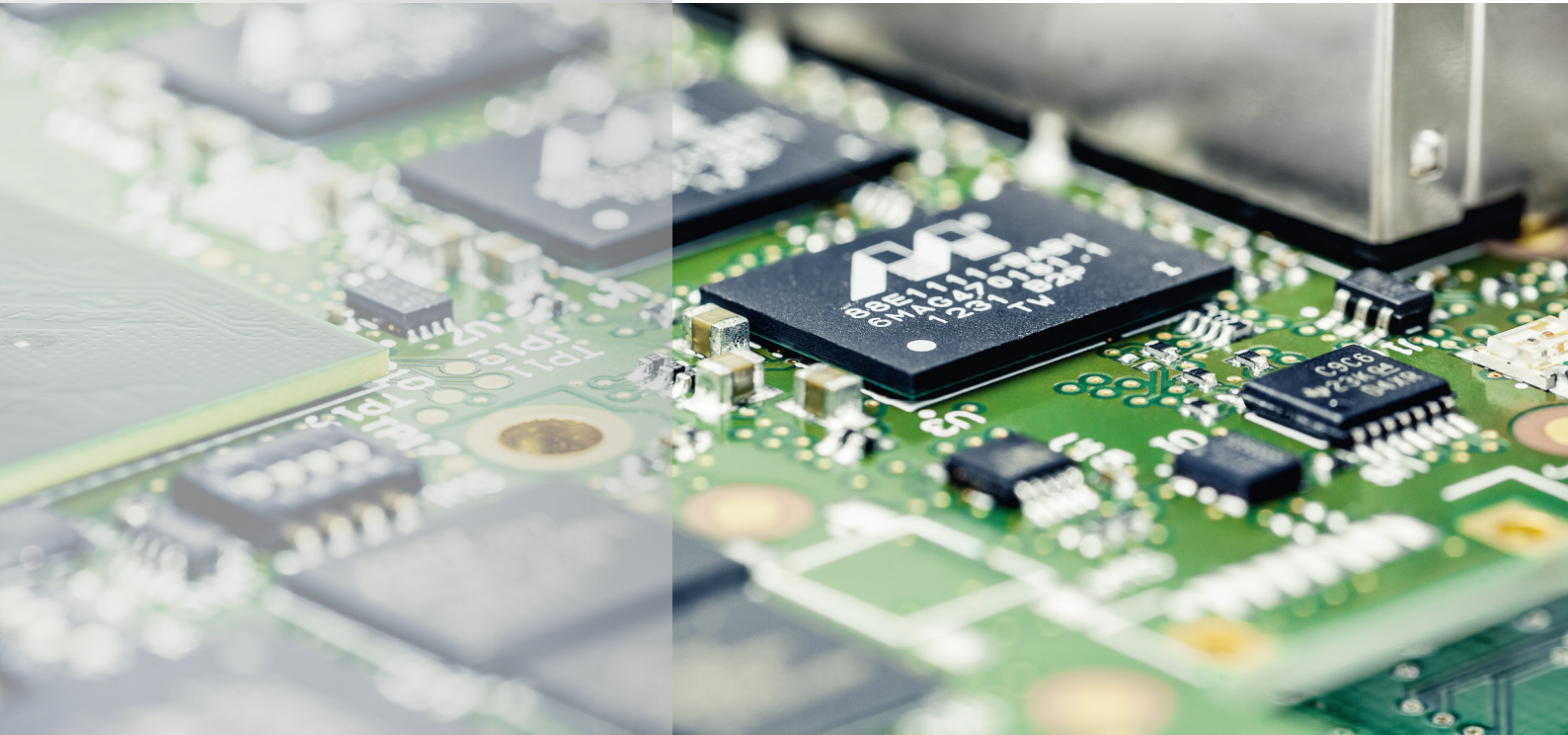


Ink jet print system CALMAR



... Print speaks CALMAR

We define ink jet standards

CALMAR is a complete solution for your ink jet printing system. Turn your ideas into reality by using our next generation technology.



CALMAR contains software and electronic components that are needed to create a printed image on the substrate from a e.g. pdf file.

CALMAR ink jet printing system hereby comprises the following main components:

- // Data processing software
- // Network technology
- // Print head electronics
- // Ink supply
- // PLC interface to integrate ink jet technology into existing or new machines and systems

- // Ink jet technology easily integrated in your machine or system
- // Sophisticated algorithms with hardware acceleration to build powerful machines
- // Scalable and open structure – letting you get started at a low cost

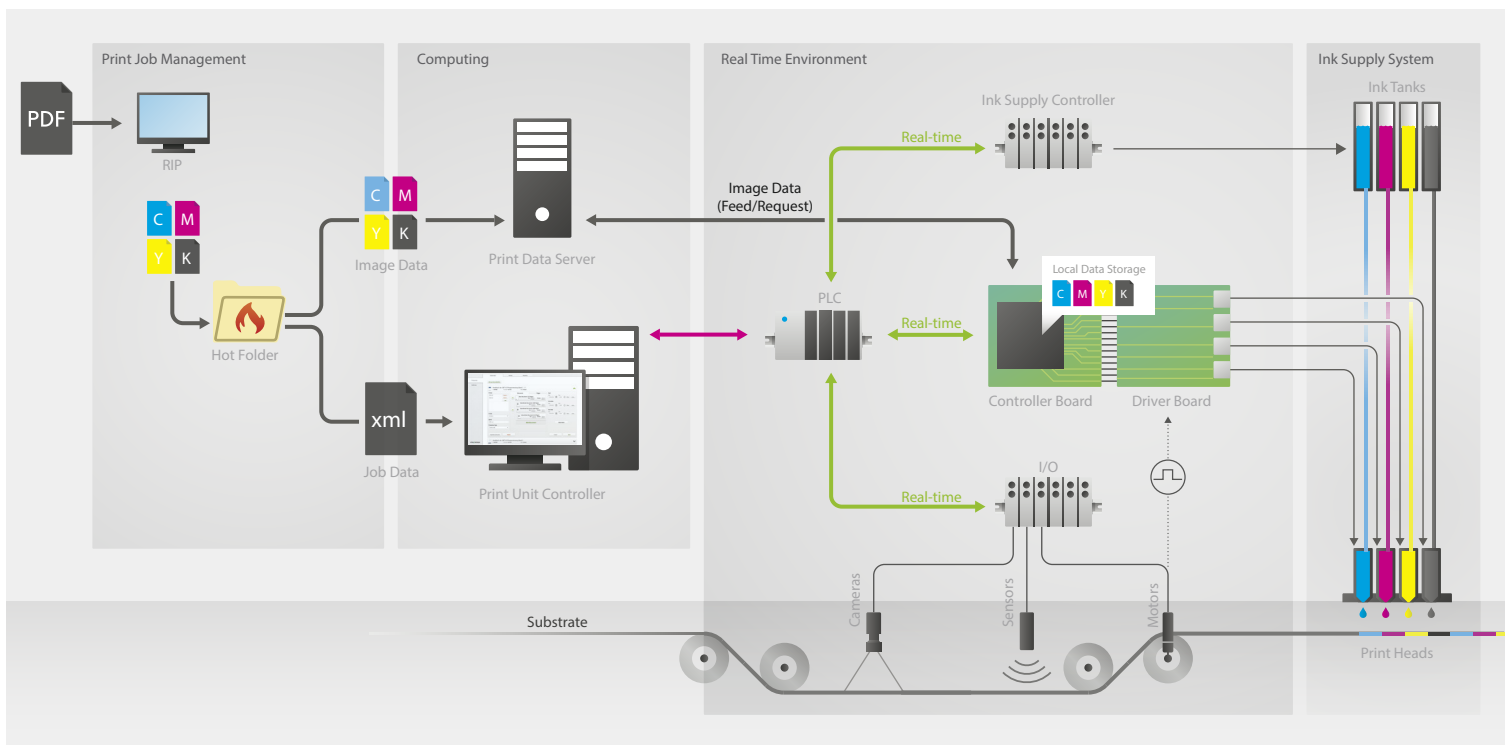


Image processing

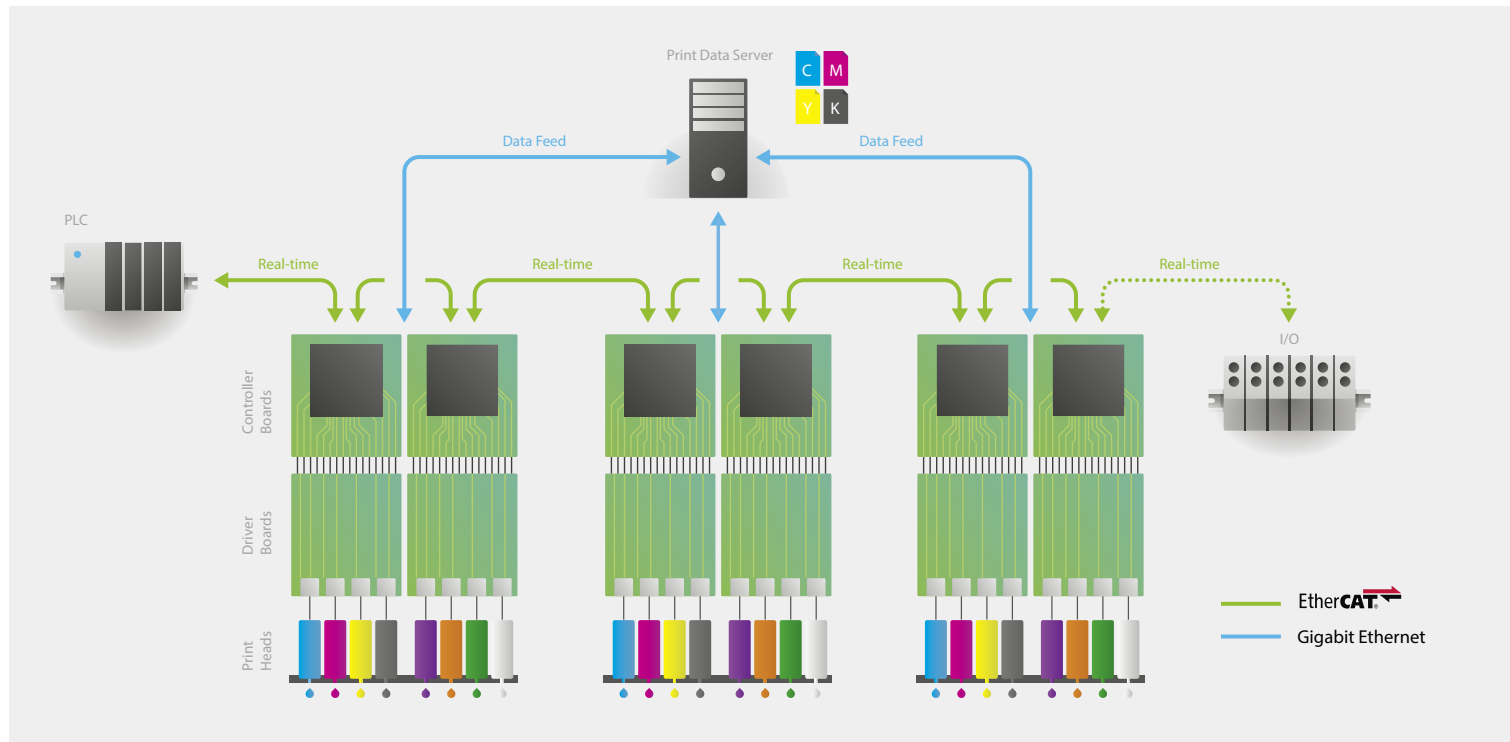
CALMAR comes with a powerful toolbox of image processing algorithms:

- // Image pre-distortion in direct-to-shape applications
- // Dynamic image positioning in real-time
- // Print prepared images based on input from automation devices

Real time network

Every print head is a node in a real-time network in the form of an industrial field bus. This allows a broad range of sensor-to-print applications like advanced print mark detection or camera based systems.

- // Real-time – Proven automation technology to control the print system
- // Variable data – build machines where every product can be different
- // Scalable and modular – freely combine print heads and colour channels



Scalability

The open architecture of the CALMAR system allows almost every imaginable configuration of print heads or the number and type of inks.

Software

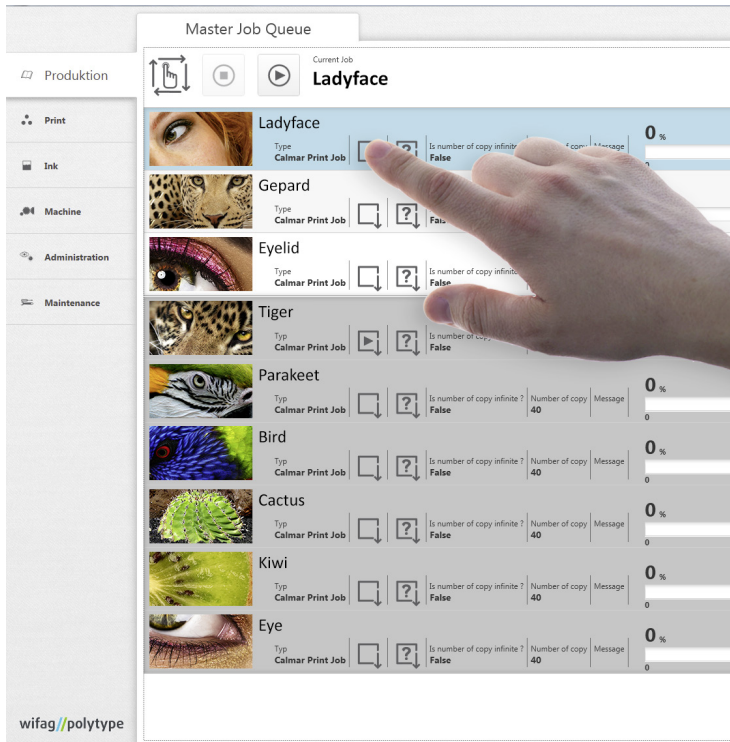
CALMAR is based on an open PLC architecture which can be fully customized. This creates the space for innovation, the print system is no longer a "black box".

The standardized user interface is tailored to an efficient and user-friendly operation of the machine.

Electronic system

The core of the CALMAR system is one or multiple controller boards, which build together with some print head specific electronics the backbone of the system.

The intelligent controller boards have a local print data buffer. This permits a minimum reaction time, maximum flexibility and a low computing power on the Calmar interface.



Print heads

CALMAR supports the latest print heads from various manufacturers and is also ready to control the next generation of print heads.

Up to 4 print heads can be connected to one controller board.



KONICA MINOLTA



Ink supply

CALMAR allows a seamless integration of customized ink supplies.

Workflow

We offer a wide range of interfaces to build an efficient and automated workflow. Be it JDF to link to an existing system, REST-API to stream data directly from a cloud to the machine or a customized solution engineered by our team, CALMAR enables you to build machines for the future of industrial production.

CALMAR can be partnered with almost any state-of-art RIP software

Variable data

Thanks to a scalable network architecture CALMAR is capable of streaming data to almost any reasonable system configuration. Combined with real-time feedback completely new concepts can become reality.

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