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UNOFFICIAL ENGLISH TRANSLATION

The original article was published in German in inVISION, a trade magazine published in Germany. Prepared for CRETEC. The German original remains the reference.

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As simple as Lego

The archive cover incorrectly names a code-verification article. The actual supplied article is "Einfach wie Lego" about fanless industrial PCs. Historical operating systems, processors, interfaces and software statements are translated as printed. Original publisher artwork, logos and advertisements are retained in their original language.



The datasheets for the three basic configurations of the fanless box PCs each fit onto one A4 page, including expansion options. The system can therefore be configured quickly using a modular approach.

As simple as Lego

Fanless box PCs for PC-based vision

AUTHOR: MATHIAS MORLOCK, HEAD OF MARKETING, CRETEC GMBH | IMAGE: CRETEC GMBH

Cretec's compact IPCs are a new generation of fanless box PCs, ideal for applications requiring high performance where space is limited.

The system is available in three basic configurations, from i5 through i7 to Xeon processors. Interfaces include 8 x GigE PoE, 8 x USB 3, four serial ports, eight digital I/Os and direct communication via fieldbuses such as PROFINET. The datasheets for each basic configuration fit onto one A4 page, including expansion options, allowing rapid modular configuration.

The PC works out of the box and comes with Windows 10 IoT as standard. It can optionally be ordered with Linux, such as Debian or Ubuntu. All drivers and software for Cretec products are pre-installed: users see a live image as soon as they connect a GigE camera, without any configuration. Libraries such as HALCON or MERLIC are already installed; simply connect the licence dongle to a USB port. Unlike many current vision controllers, standard cable connectors such as RJ45, SubD and M12 are used, and the systems have an open architecture. Customers have a complete

Windows or Linux system and can independently expand it or replace it with another manufacturer's PC without rebuilding the entire machine-vision setup. Wall mounting, mounting to profiles using slot nuts, or direct DIN-rail mounting are available as standard.

The IPCs are supplied with Skylake architecture as standard, ensuring compatibility with Windows 7, any Linux distribution and Windows 10. Kaby Lake systems and, as soon as available on the market, Coffee Lake systems can also be supplied on request.

www.cretec.gmbh