



Presseinformation

## **ModBlox7™**

**Neuer PICMG® Standard für modulare Industrie PCs geplant  
EKF zeigt erste Prototypen auf der InnoTrans**



[https://www.ekf.de/modblox7/demo/ModBlox7\\_big\\_pano\\_10x15.jpg](https://www.ekf.de/modblox7/demo/ModBlox7_big_pano_10x15.jpg)

Unter der Bezeichnung PICMG® **ModBlox7™** arbeiten mehrere Hersteller derzeit an einem neuen Standard für modulare Industrie PCs, der die Vorteile skalierbarer Systeme wie z.B. CompactPCI® mit kostensparenden Box-PCs kombinieren soll.


ModBlox7™ basiert auf Baugruppen mit einer Frontbreite von 7TE oder einem Vielfachen davon (1TE = 5.08mm). Die Mechanik erlaubt vielseitige Montageoptionen, darunter Wandbefestigung, DIN Rail Klemmtechnik oder 19-Zoll Sub-Racks.

ModBlox7™ ermöglicht das simple Zusammenstecken von Baugruppen ohne eine zusätzliche Backplane. Die Gehäuserückwand dient der Entwärmung. In 2023 soll die PICMG® ModBlox7™ Spezifikation endgültig verabschiedet werden.

In Zusammenarbeit mit **Ci4Rail** zeigte **EKF** erste Prototyp-Systeme auf der InnoTrans. Das bahntaugliche Konzept basiert auf einem 7TE Netzteil ganz links angeordnet, daneben eine 14TE breite CPU Baugruppe, gefolgt von I/O Modulen.




ModBlox7™ Links	
Flyer	<a href="https://www.ekf.de/modblox7/Modblox7-flyer.pdf">https://www.ekf.de/modblox7/Modblox7-flyer.pdf</a>
Fotos	<a href="https://www.ekf.de/modblox7/demo/">https://www.ekf.de/modblox7/demo/</a>
Ci4Rail	<a href="https://www.ci4rail.com">https://www.ci4rail.com</a>




## Standardizing Modularity for Industrial PCs

# ModBlox7™

Standard expected to be released early 2023






### The Need for Industrial PCs

As more market applications and the steady by Markets & Research Research, the demand for Industrial PCs is increasing. High-end will continue to grow over the next few years. The market is moving from general purpose PCs to a wide range of specialized applications such as industrial automation, IIoT, and edge computing.

There are three to four different standards of different manufacturers with equally different products in terms of form factors, interfaces, mount, qualifications, and performance. There are clear requirements with their own product form. Customers therefore opt for a specific product for many years, leading to a high level of fragmentation.

#### Growing Market Size



5.1 Billion by 2023  
CAGR of 5.8%  
5.6 Billion in 2021

#### Widely Spread Applications

- Process & Control
- Communication
- Data Acquisition & Diagnostics
- Edge Computing & IIoT

### Game Changer Standardizing Modular Industrial PCs

The increasing demand for space, cost and weight optimized industrial PCs combined with the lack of interoperability and flexibility of the current offering formed the motivation for ModBlox7. Standardization is the key to success.

ModBlox7 addresses the advantages of modular systems (e.g. CPU, with high integrated board).


Based on a modular and multi-PC system, every function can be broken down into small blocks that can be added or removed as needed (up to 10x 7cm) without using complex PCBs or BGA.

The system offers different mounting options: **It can be used in 1U, 2U, 3U, 4U, 5U, 6U, 7U, 8U, 9U, 10U, 11U, 12U, 13U, 14U, 15U, 16U, 17U, 18U, 19U, 20U, 21U, 22U, 23U, 24U, 25U, 26U, 27U, 28U, 29U, 30U, 31U, 32U, 33U, 34U, 35U, 36U, 37U, 38U, 39U, 40U, 41U, 42U, 43U, 44U, 45U, 46U, 47U, 48U, 49U, 50U, 51U, 52U, 53U, 54U, 55U, 56U, 57U, 58U, 59U, 60U, 61U, 62U, 63U, 64U, 65U, 66U, 67U, 68U, 69U, 70U, 71U, 72U, 73U, 74U, 75U, 76U, 77U, 78U, 79U, 80U, 81U, 82U, 83U, 84U, 85U, 86U, 87U, 88U, 89U, 90U, 91U, 92U, 93U, 94U, 95U, 96U, 97U, 98U, 99U, 100U.**

Thanks to the mechanical and electrical contact in addition, expansion is possible in the ModBlox7 standard system (up to 10x 7cm).

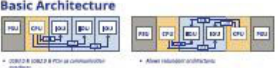
For high availability solutions, redundant architecture can be realized.

#### Expandable Width



Up to 12 slots possible (2x 10x 7cm)

#### Basic Architecture



• All-in-one PCB (CPU, memory, storage, network, etc.)

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#### Benefits

- Modular and Cost Efficient
- Standard of Lowest Space Requirements
- Interoperability for Users & Manufacturers
- Full-Range of Accessory PC Modules
- Allow Defining also for Small Quantities
- Only Pay for What You Need

### ModBlox7 Ecosystem

These manufacturers are developing the new ModBlox7 standard and the market is growing. With the forced experience of 10+ companies we will form a reliable and useful industrial PC standard.


#### Contact

Your company want to participate in the new ModBlox7 standard? You have any further questions? Please contact Jens Jauch from PICMG or the chairman of the working group Bernd Kleeberg from EKF.

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<https://www.ekf.de/modblox7/Modblox7-flyer.pdf>

# ***ModBlox7™***

## **The Game Changer**



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