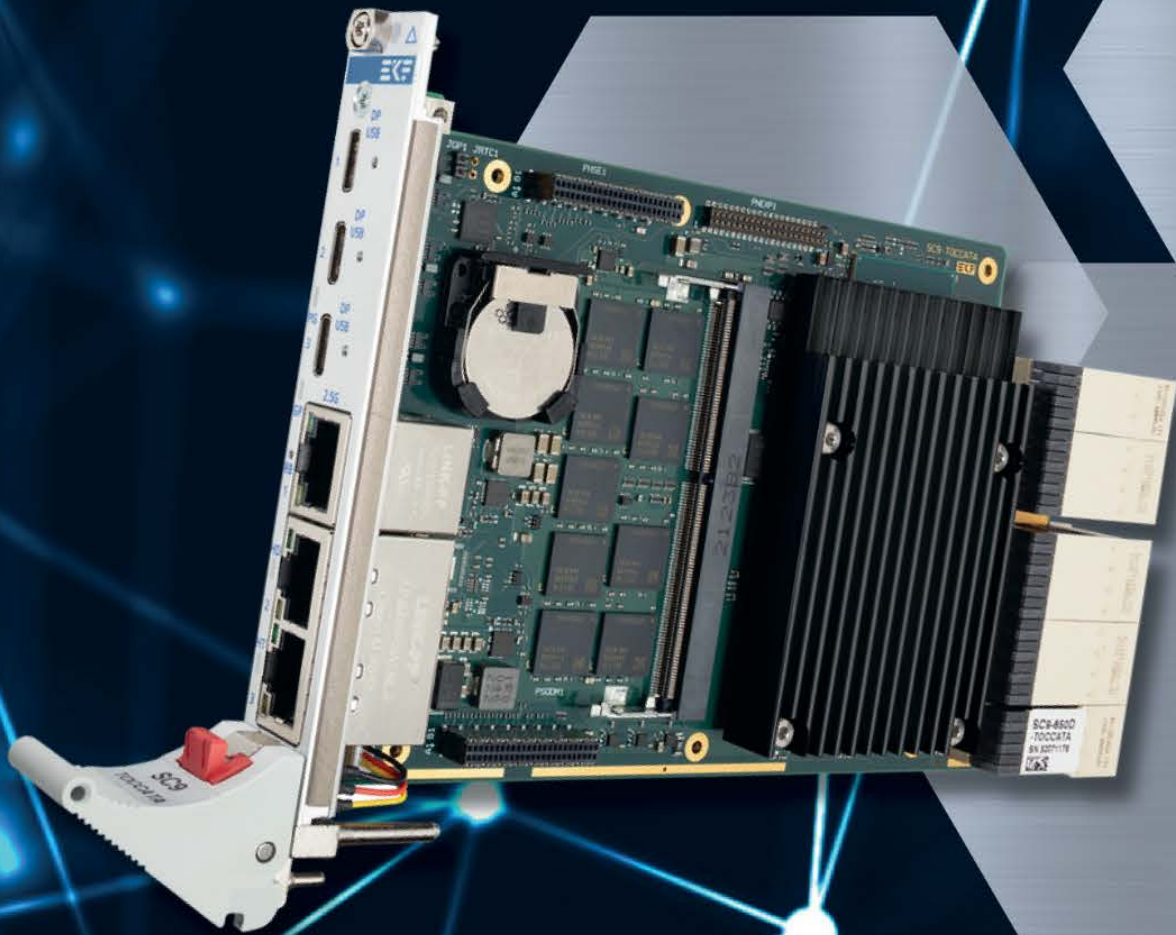




**Modular Industrial
Computing Solutions**
Reliable. Long-Term
Available. Cost-Effective.



CompactPCI®
CompactPCI® Serial

If cPCI, then EKF!

Discover the Broadest CompactPCI® /-Serial Portfolio on the Market!

A modular system concept like CompactPCI® Serial adapts flexibly to a variety of tasks and markets, integrating AI and Edge Computing functionality. Due to its rugged characteristics it is not only the perfect fit for modular applications in industrial automation, but can be found more and more in several demanding applications in transportation, telecommunications, medical technology or even in heavy machines or agriculture.

Depending on the requirements of the project, e.g. I/O or memory options can be easily added, making system design flexible and cost-effective.

A wide range of CPU cards (from high performance to low power) together with an impressive portfolio of peripheral boards provides an answer for nearly all industrial applications. Bridging modules and carrier cards allow hybrid systems, mass storage arrays and much more. Besides boards, EKF offers a wide range of standard and customized housings, from full 19" racks to customized boxes.



Driving the Standard!

EKF is one of the most relevant manufacturers of standardized CompactPCI® Serial based solutions and has leading roles in the PICMG® standardization group, where the company is driving new innovations and products.

cPCI Serial CPU Boards



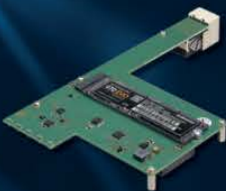
SC9-TOCCATA	Intel® Xeon® 11th. Gen., 2.6/4.7GHz, 45W, 64GB on-board DDR4+ECC, 3x 2.5 GbE, 3x DP/USB3, Type C alternate mode, Local exp. Options
SCA-Thunder	Intel® Core™ Ultra 13th Gen., 64GB DDR5+ECC, PCIe Gen5 3x 2.5 GbE, 3x DP/USB3 Type c alternate mode Local exp. Options
SC8-FLUTE	Intel® Atom™ x6000RE (6-12W), 32GB RAM with IB ECC, 3x 2.5 GbE, 3x DP/USB3 alt. Type C, 3x PCIe Gen3 x1 backpl., Local exp. Options
SC6-TANGO	Intel® Atom™ E39XX, 8GB ECC RAM, 12W/6.5W TDP, F/P 2x DP, 2x USB3, 2x GbE; Local Exp.: 2x USB, 2x SATA 6G, CFast™, uSD-Card, eMMC, 4x PCIe Gen2 x1

cPCI PlusIO CPU Boards



PC9-TOCCATA	Intel® Xeon® 11th. Gen., 2.6/4.7GHz, 45W, 32GB on-board DDR4+ECC, 3x 2.5 GbE, 3x DP/USB3, Type C alternate mode, Local Exp.: Options, J2 PlusIO
PC8-FLUTE	Intel® Atom™ x6000RE (6-12W), 32GB RAM with IB ECC, 3x 2.5 GbE, 3x DP/USB Type C alternate mode, Local Exp.: J2 PlusIO
PC7-FESTIVAL	Intel® 7th. Gen. Core™, Xeon® E3 v6, CM238, 45W TDP, 8/16/32GB ECC RAM, F/P 2xDP, 2xUSB3, 2xGbE; Local Exp.: J2 PlusIO
PC6-TANGO	Intel® Atom™ E39XX, 8GB ECC RAM, 12W/6.5W TDP, F/P 2x DP, 2x USB3, 2x GbE; Local Exp.: 2x USB, 2x SATA 6G, CFast™, uSD-Card, J2 PlusIO

Low Profile Mezzanine Modules



S48-SSD	Dual NVMe® SSD Storage, M.2 PCI Express® up to Gen4
S80-P6	8x GbE, Marvell® Switch, M.2 NVMe®
S82-P6	4x GbE NIC, M.2 NVMe®
S83-P6	Gen4, 4x 2.5G BASE-T, M.2 NVMe®

Sidecards +4HP



SCJ-VEENA	4x 2.5Gbps NBASE-T NIC, M.2 NVMe®
SCL-RHYTHM	4 x M12 X-coded front panel GbE NIC (Intel® i210), M.2 NVMe® slot, PCIe Gen3 x4
SCZ-NVM	2x M.2 NVMe® slot, 2x (4x) RS232, DP, USB 3.1 Gen1 Typ A
PCU-UPTempo	2x M.2 SATA, 2x (4x) RS232, 2x USB 2.0 (opt. Audio I/O), Rear I/O opt. for COM (TTL), P/S, GPIO via J2

Bridging

SXC-PCIE	Secondary cPCI Serial system slot controller, expand cPCI-S backplane from 8 - 16 slots, F/P 3x USB 3.1 and 3x GbE NIC, onboard NVMe®&SATA mass storage, CPU board side card
EXC-PCIE	Secondary cPCI Express (PXIe) system slot controller, added 4x CompactPCI® Express (PXIe) peripheral slots, F/P 3x USB3.1 and 3x GbE NIC, onboard NVMe®&SATA mass storage, CPU board side card
SXP-JAM	cPCI Serial to cPCI Classic coupler unit, added up to 8x cPCI Classic slots, F/P 3x USB 3.1 and 3x GbE NIC, onboard M.2 mass storage, dual board assembly unit
SX6-FIREWORKS	PCIe Gen3 external optical cable host system adapter, dual F/P connectors MPO/MTP 12 fiber, dual PCIe x4, based on Samtec Firefly™ Flyover™ PCUO modules, enables links up to 100m, opposed connector
SXC-LOOP	PCIe Gen3 x8 target system adapter, F/P connectors PCIe x8 68-pos.



Carrier

SF1-STUDIO	2x PCIe Minicard slot dedicated for industrial I/O modules, optimized for Hilscher real-time Ethernet & fieldbus and ESD CAN modules
SK5-BALL	XMC module carrier up to PCIe x8, suitable for 74mm x 149mm industrial I/O modules, RIO opt.
SPX-PHASE	Quad carrier for M.2 3042 style WWAN modules, e.g. 3G, 4G or 5G (LTE) modems and beyond, quad-port USB 3.0 controller, antenna combiner 4:1
SV2-MOVIE	Carrier for MXM 3.0 Type B graphics module, 4 x DisplayPort front panel connectors, installed module e. g. Nvidia® GTX 1060, PNY P3000/P5000 MXM 3.1 type B module
SE5-CLUB	SSD Carrier for U.2 NVMe, Gen4 x 4 x PCIe



USB

SBX-DUB	4x USB 3.1 Gen 1 controller with 16 ports, 4 ports with full speed each port via F/P receptacle (switchable to rear I/O), 12 ports via rear I/O, PCIe Gen2 x4 backplane interface
SBF-CROSSOVER	Multifunction peripheral card, F/P 4x USB 3.1, 2x GbE NIC, Quad UART 2x RS232, 2xRS232/RS485 isolated, PCIe Minicard for dual CAN FD etc.



CompactPCI® Express (PXI Express™)

EA4-COUNTRY	PCI Express™ card carrier for PCIe card x8 (x4, x1), maximum card dimensions 176.0mm x 68.9mm
EB3-TONE	Quad port USB 3.1 Gen 1 host controller, 4x USB connectors type A via frontpanel
EK4-WALTZ	XMC module carrier up to PCIe x8, suitable for 74mm x 149mm size XMC modules



Network

SN1-REVERB	5-port GbE controller, RJ45 F/P jacks, 5x I210-IT
SN4-DJEMBE	4-port 10-GbE controller, Gen3 x 8 PCIe 4 x M12-X connector
SN5-TOMBAK	2-port 10-GbE controller, Gen2 x 8 P1/P2 2 x SFP+ module cages
SN6-TREMOLO	4-port 10-GbE controller, Gen3 x 8 PCIe 4 x RJ45 connector
SL4-TUBA	20-port GbE switch, 5 x RJ45 front panel jacks, 8 x GbE via P6 backplane connector, 6x GbE via P5, 1x via P1
SN9-CAPO	4-port 2.5Gbps controller 4 x RJ45 connector



UART

SU1-TWIST	Octal UART, 4x isolated RS-485 on front panel via Micro-D connector (optional RJ45 or 3x DSUB 9), 4x rear I/O UART ports (TTL) via P3
SU2-BALLAD	Octal UART, 4x isolated RS-232 on front panel via Micro-D connector (optional RJ45 or 3x DSUB 9), 4x rear I/O UART ports (TTL) via P3



cPCI Serial Systems

SRS-1201 BLUBRICK	Wall mount crate, passive cooling (opt. fan), 3/2 slot, power supply selectable for Industrial, Automotive or Railway
SRS-3201 BLUBOX	4U/32HP cPCI Serial system rack, 1 + 4 slots cPCI Serial backplane, system slot right, bottom mounted fan 12V, PSU 8HP 150W
SRS-8442 SERIAL	19-inch rack with cPCI Serial and cPCI Express (PXle) backplanes, 1+ 6 cPCI Serial slots, 1 + 8 PXle slots via bus coupler, 3x fans on bottom mount fan unit
SRS-8493 CoolConduct	4U/84HP cPCI Serial rack, suitable for demanding industrial applications such as multiprocessing across several CPU cards or GPU boards (CUDA). A special technology was developed by EKF and partners for optimum cooling of each card slot.





About EKF

EKF Elektronik GmbH is a leading manufacturer of modular, ruggedized embedded boards and systems for demanding industrial sectors such as transportation and traffic, IIoT and Industry 4.0, robotics, energy, industrial automation and medical technology.

From the high-performance CompactPCI® Serial standard to modular and cost-effective box and board-level assemblies (EKF Embedded Blue®/Gold series and PICMG® ModBlox7™ standard), EKF offers flexible embedded solutions that are precisely tailored to customer requirements. With product designs based on the latest CPU platforms from Intel®, NVIDIA® and ARM®, cloud-based software solutions and modular product families that build on each other, the company manages the balancing act between innovation and long-term availability.

Development and production take place exclusively at the company's own headquarters in Hamm, Germany. A three-year guarantee on all products underlines the company's quality standards.

EKF is an active member of renowned technology partners such as the Intel® Partner Alliance, PICMG®, PCI-SIG®, EtherCat® Technology Group and Single Pair Ethernet Industrial Partner Network, where it actively promotes the development of the latest product standards.



Contact us!
sales@ekf.de