

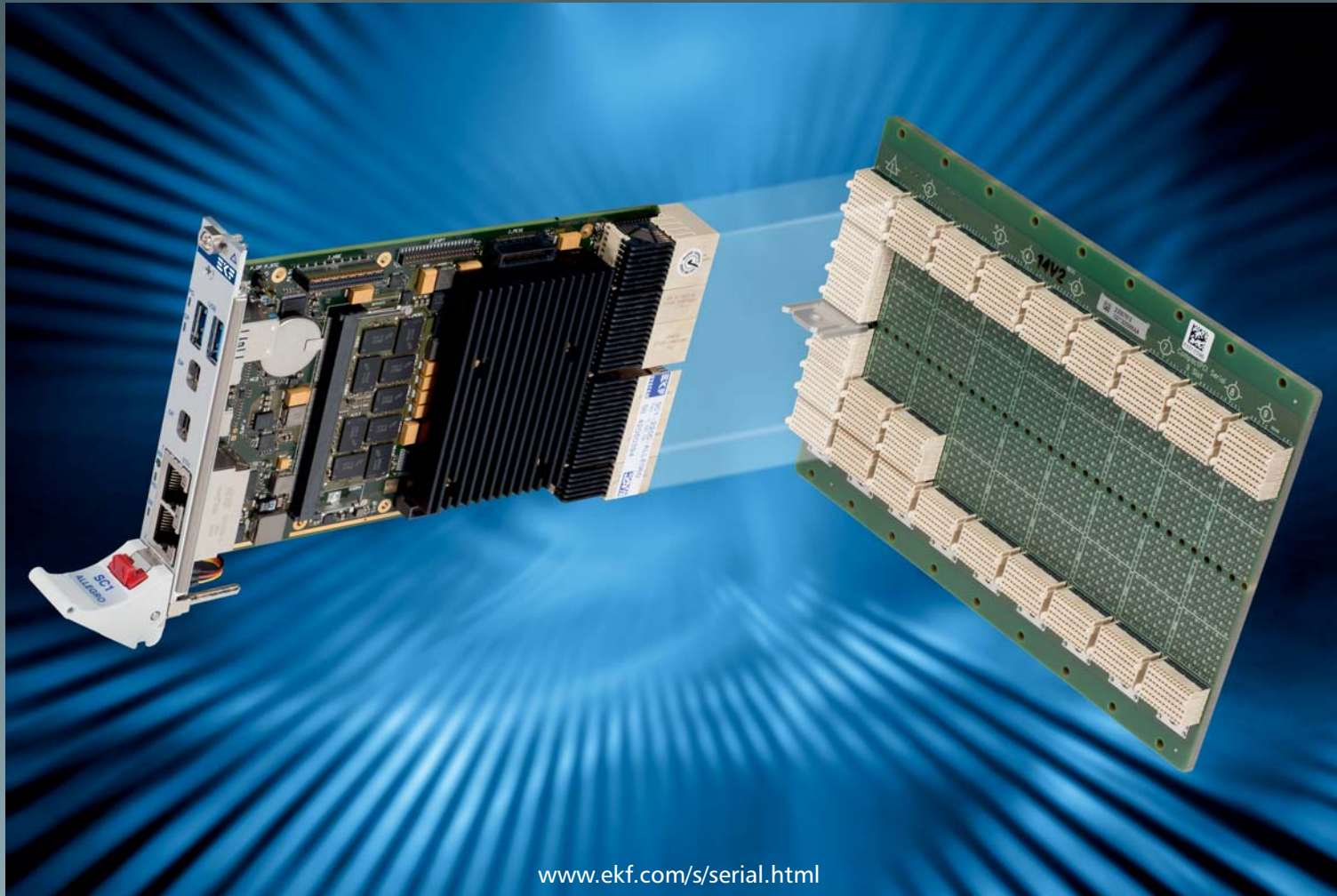
CompactPCI[®] Serial...



... the Smart Solution

CompactPCI® Serial Systems

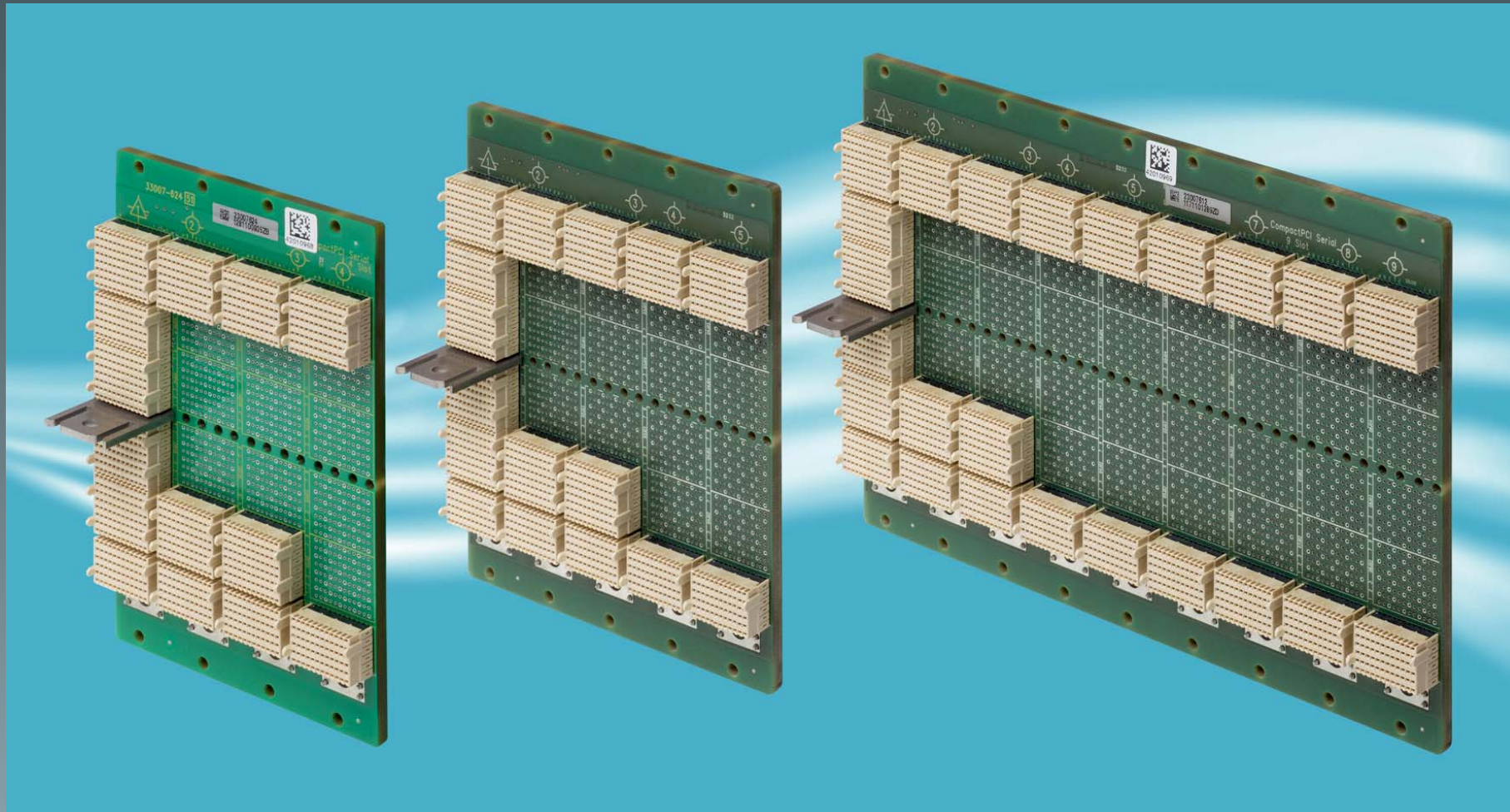
Designed for performance • 40 x PCI® Express • 8 x Gigabit Ethernet • 8 x SATA • 8 x USB3



www.ekf.com/s/serial.html

CompactPCI® Serial Systems

CPCI Serial backplanes for optimum throughput

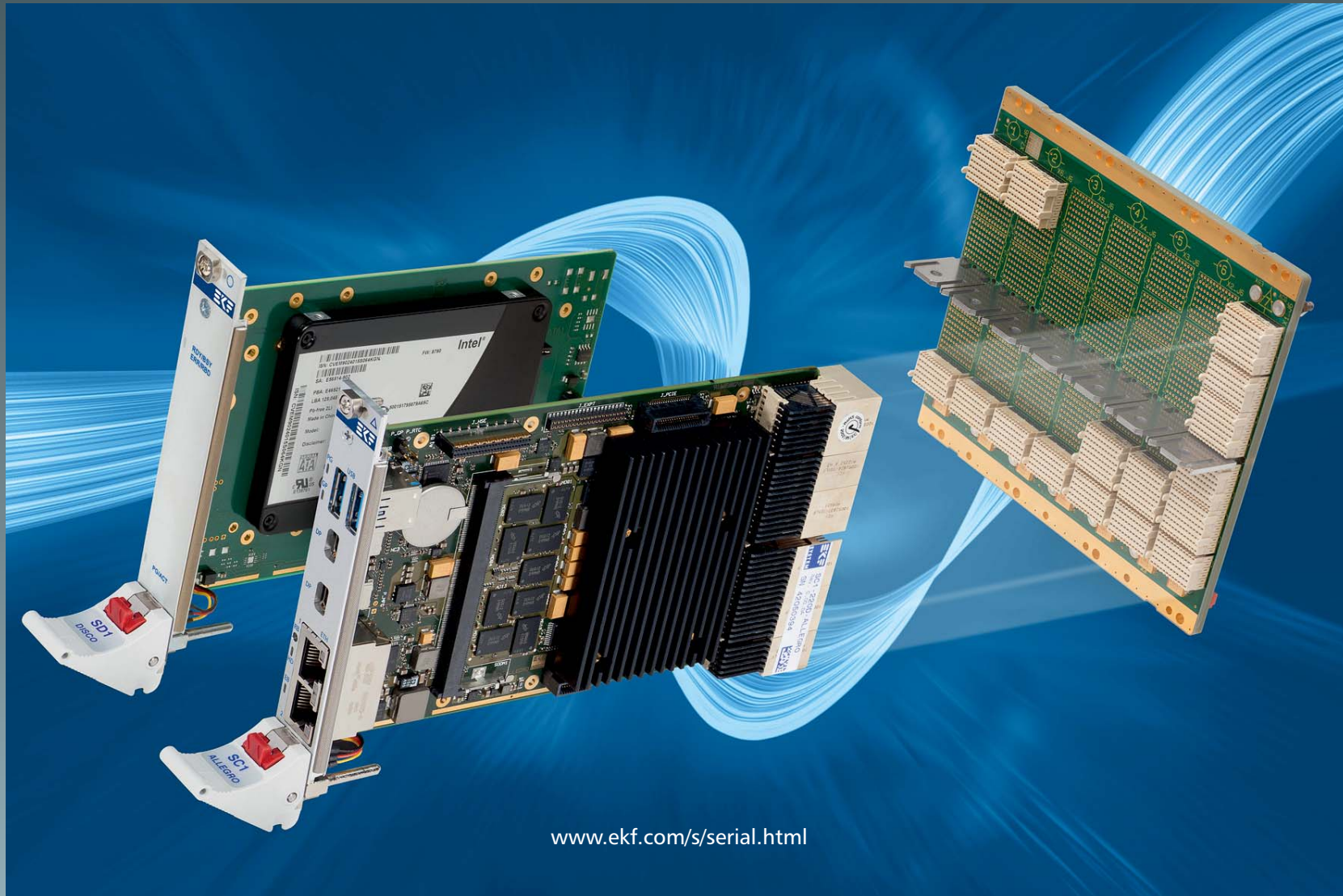


Sample Backplanes CompactPCI® Serial

The CompactPCI® Serial system slot is located either most left or most right

CompactPCI® Serial Systems

Reverse order backplanes (system slot right aligned) for CPU cards with 4HP to 12HP front panel



CompactPCI® Serial Systems

CPCI® Serial BLUBRICK series - ultra rugged



SRS-1201-BLUBRICK CompactPCI® Serial

CompactPCI® Serial Systems

CPCI Serial BluBoxx series - small and economic



www.ekf.com/s/srs/srs3201/srs3201.html

SRS-3201-BLUBOXX CompactPCI® Serial

CompactPCI® Serial - the Smart Solution

CompactPCI® Serial Systems

CPCI Serial rugged system racks

www.ekf.com/s/srs/srs4401/srs4401.html



SRS-4401-SERIAL CompactPCI® Serial

CompactPCI® Serial Systems

CPCI® Serial racks 84HP

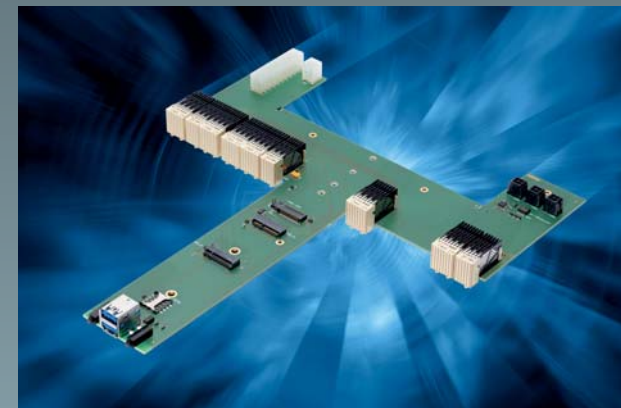


www.ekf.com/s/srs/srs8401/srs8401.html

SRS-8401-SERIAL CompactPCI® Serial

Embedded Blue®

CPCI® Serial boxed solutions • fixed & custom configuration

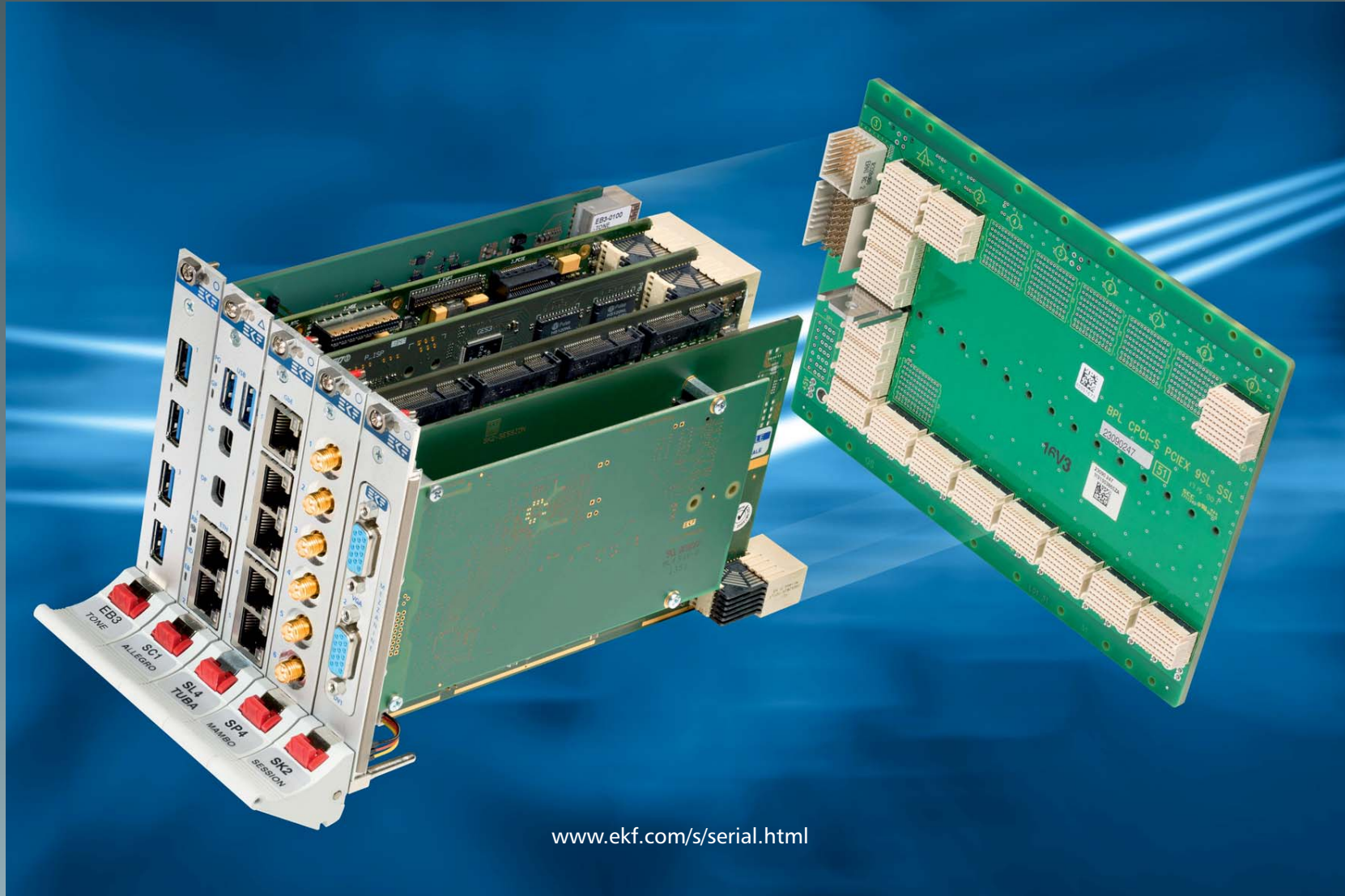


CompactPCI® Serial - the Smart Solution

BC200 Embedded Blue®

CompactPCI® Serial Systems

Hybrid backplanes available with CompactPCI® Express (PXI Express™) slots



www.ekf.com/s/serial.html

CompactPCI® Serial Systems

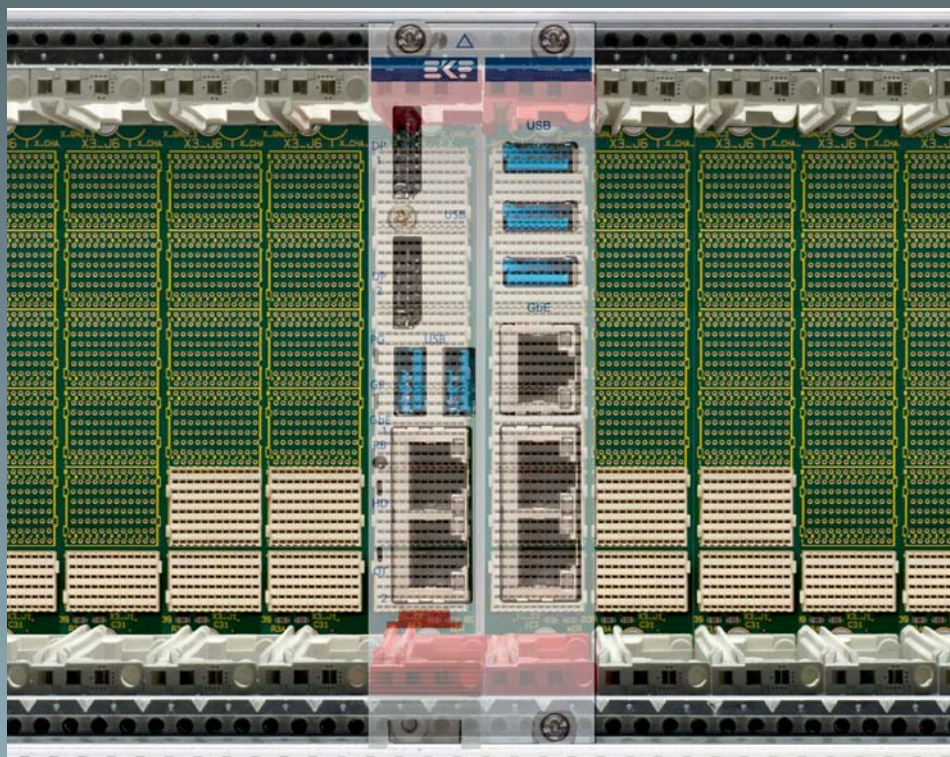
Backplane coupler CompactPCI® Serial to CompactPCI® Classic



www.ekf.com/s/sxp/sxp.html

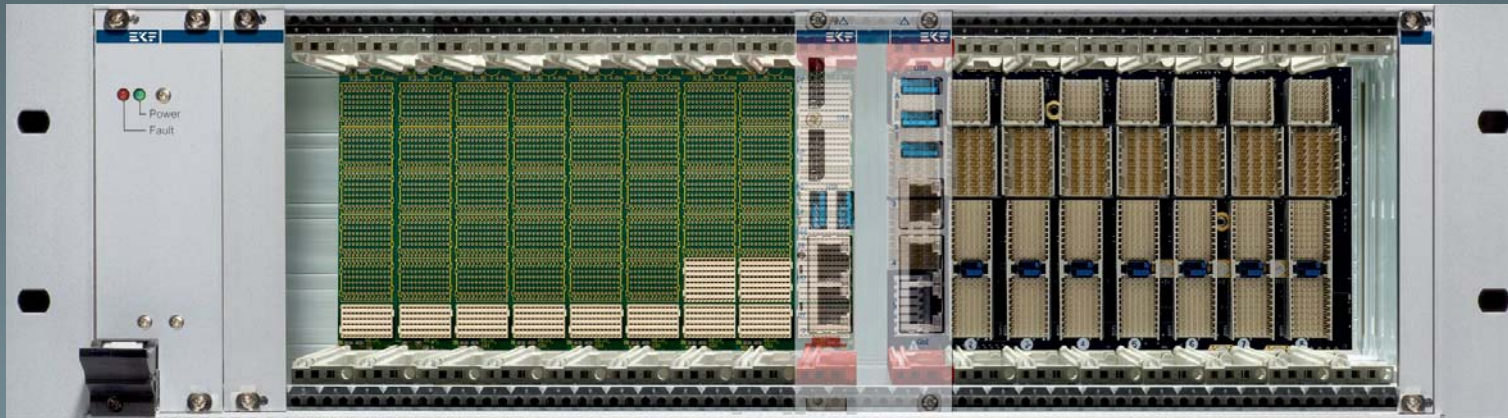
CompactPCI® Serial Systems

Backplane coupler dual CompactPCI® Serial



CompactPCI® Serial Systems

Backplane coupler CompactPCI® Serial to CompactPCI® Express



www.ekf.com/e/ecx/ecx.html

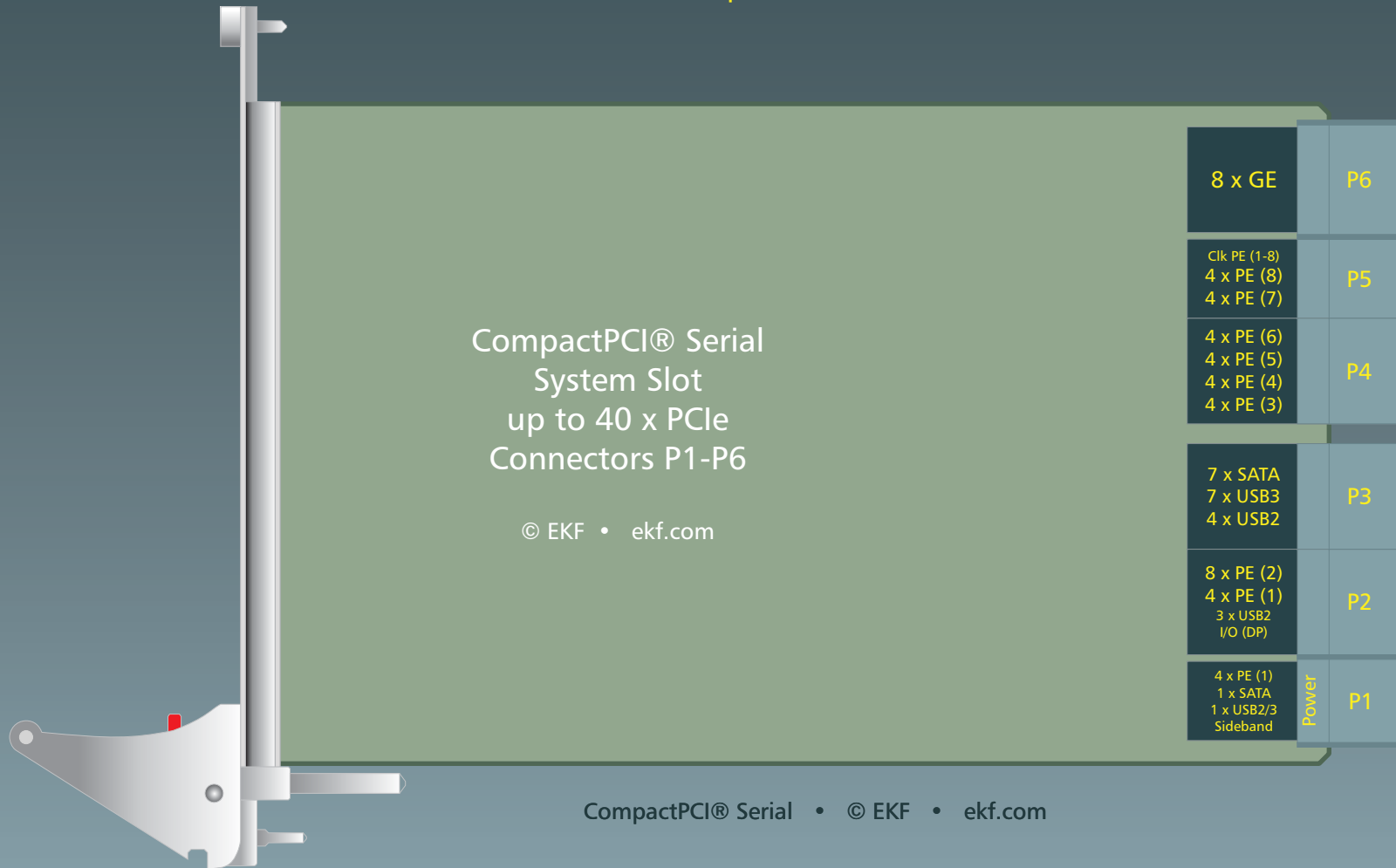
CompactPCI® Serial Systems

Backplane mounted UPS • Backplane mounted Fan



CompactPCI® Serial Connectors

A system slot card (CPU) provides up to 40 x PCIe
 In addition up to 8 x SATA 8 x USB 8 x GbE

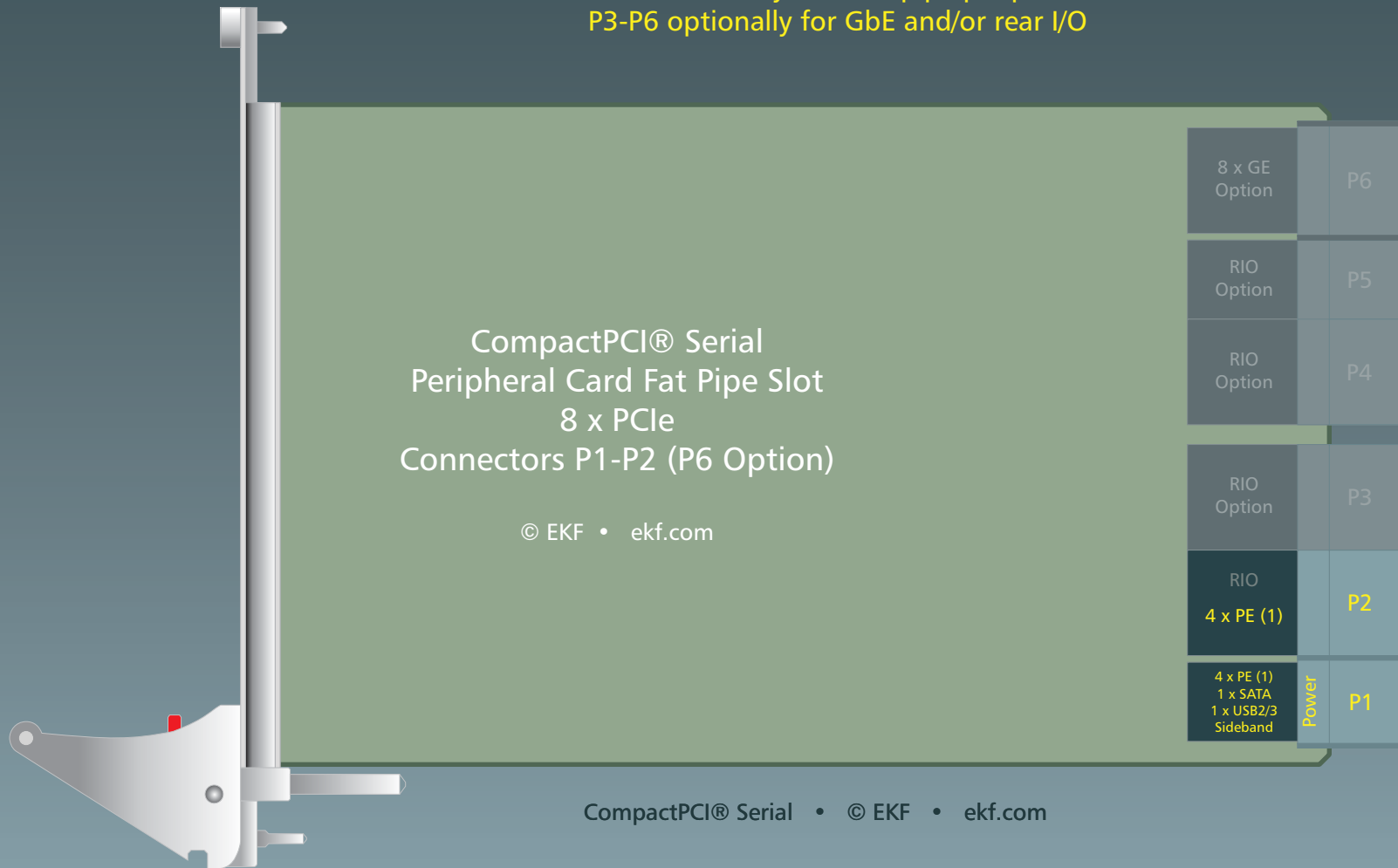


Gigabit Ethernet
 star architecture
 or full mesh

In a CPCI Serial system, up to 40 x PCIe lanes can be distributed across the backplane
 to 2 x fat pipe peripheral slots (8 lanes each) and 6 x standard peripheral slots (up to 4 lanes each)

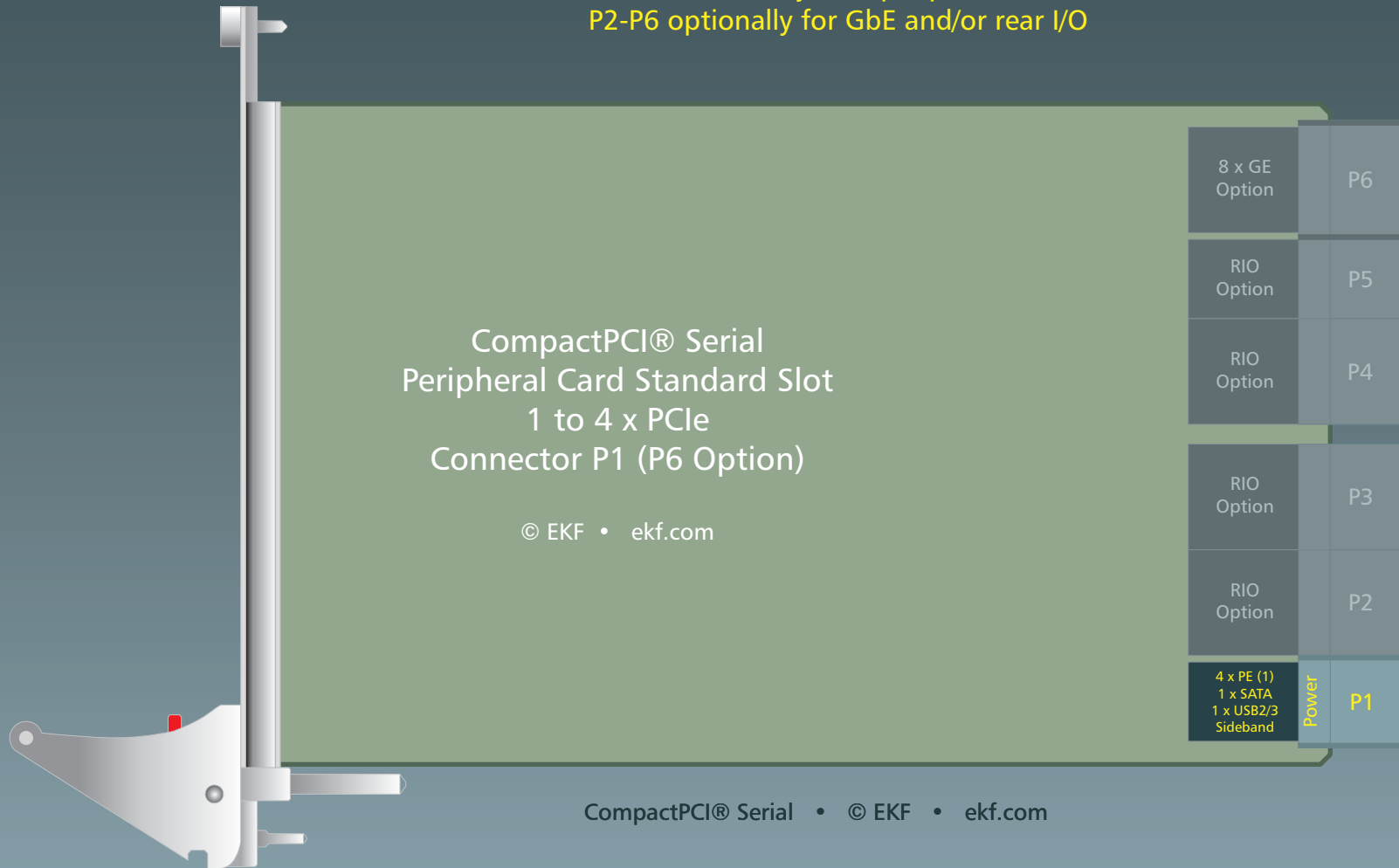
CompactPCI® Serial Connectors

A fat pipe peripheral slot provides 8 x PCIe 1 x USB 1 x SATA
P1-P2 are mandatory on a fat pipe peripheral card
P3-P6 optionally for GbE and/or rear I/O



CompactPCI® Serial Connectors

A CompactPCI® Serial peripheral slot provides up to 4 x PCIe 1 x USB 1 x SATA
P1 is mandatory on a peripheral card
P2-P6 optionally for GbE and/or rear I/O



CompactPCI® Serial Systems

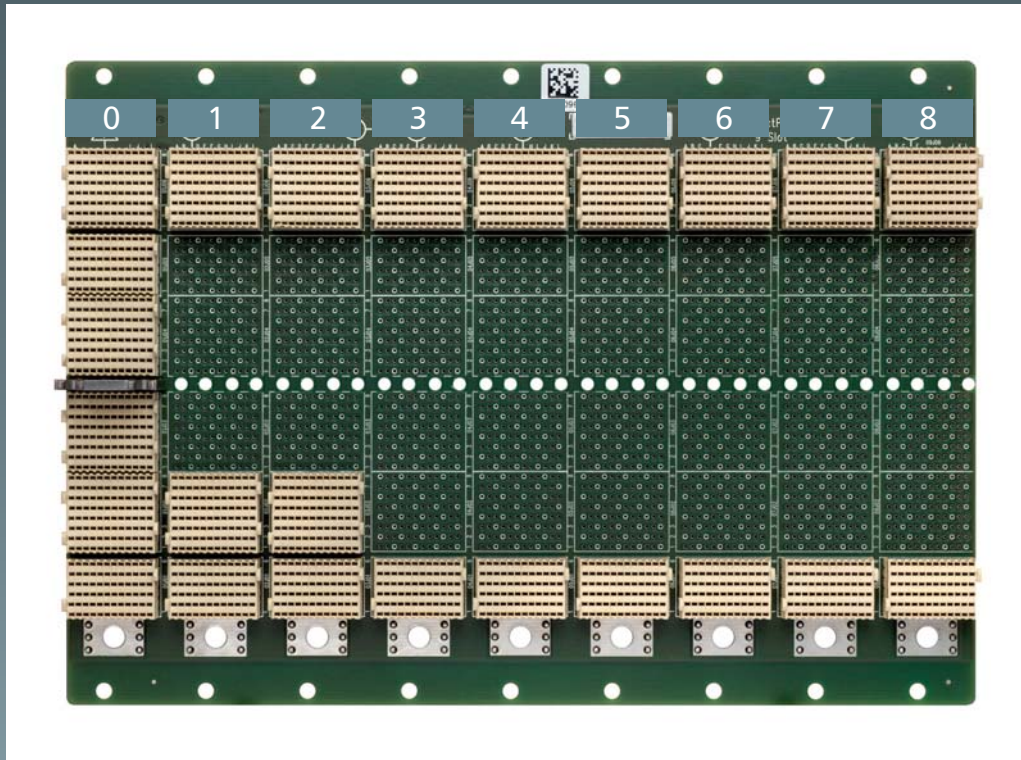
System expansion made easy - add mass storage cards or I/O as required by your application



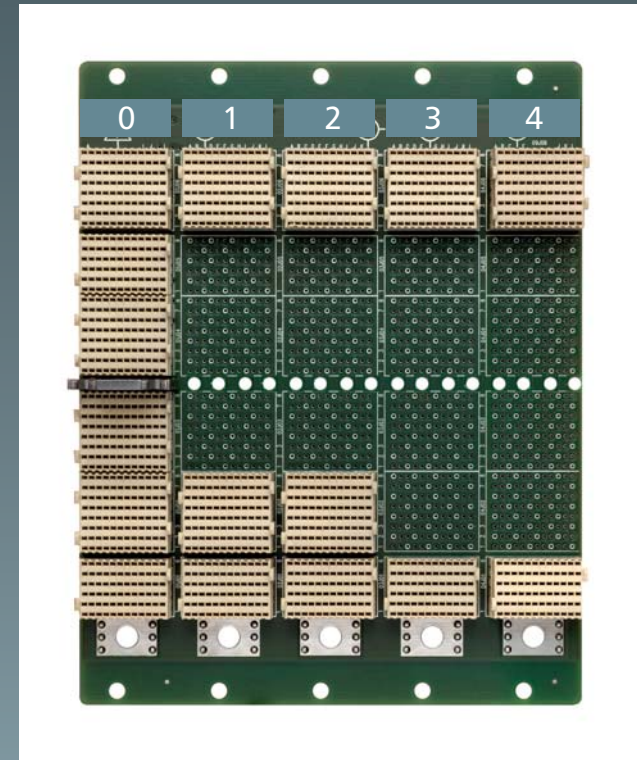
www.ekf.com/s/serial.html

CompactPCI® Serial Connectors Filling Order Rules

The System Slot board (CPU) is the root complex (source) for up to 8 x PCIe Links, 8 x SATA/SAS, 8 x USB, 8 x GbE distributed across a cPCI-S backplane to the Peripheral Slots. Please note the descending precedence order for SATA channels.



PE Link	1	2	3	4	5	6	7	8
USB	1	2	3	4	5	6	7	8
SATA	8	7	6	5	4	3	2	1
GbE	1	2	3	4	5	6	7	8



PE Link	1	2	3	4
USB	1	2	3	4
SATA	4	3	2	1
GbE	1	2	3	4

CompactPCI® Serial CPU Card

CPU (System Board) • SC5-FESTIVAL • Intel® Xeon® E3 v6 Processor



www.ekf.com/s/sc5/sc5.html

new mezzanine connectors introduced for high performance local expansion
PCI Express Gen3 up to 8 links
www.ekf.com/s/sc4/new_mezzanine_connectors.pdf



M.2 NVMe & SATA SSD
Type-C support
www.ekf.com/s/s40/s40.html



CompactPCI® Serial CPU Card

CPU (System Board) • SC4-CONCERTO • Intel® Xeon® E3 v5 Processor



www.ekf.com/s/sc4/sc4.html



M.2 NVMe & P6 8 x GbE
www.ekf.com/s/s80/s80.html



new mezzanine connectors introduced
for high performance local expansion
PCI Express Gen3 up to 8 links
www.ekf.com/s/sc4/new_mezzanine_connectors.pdf

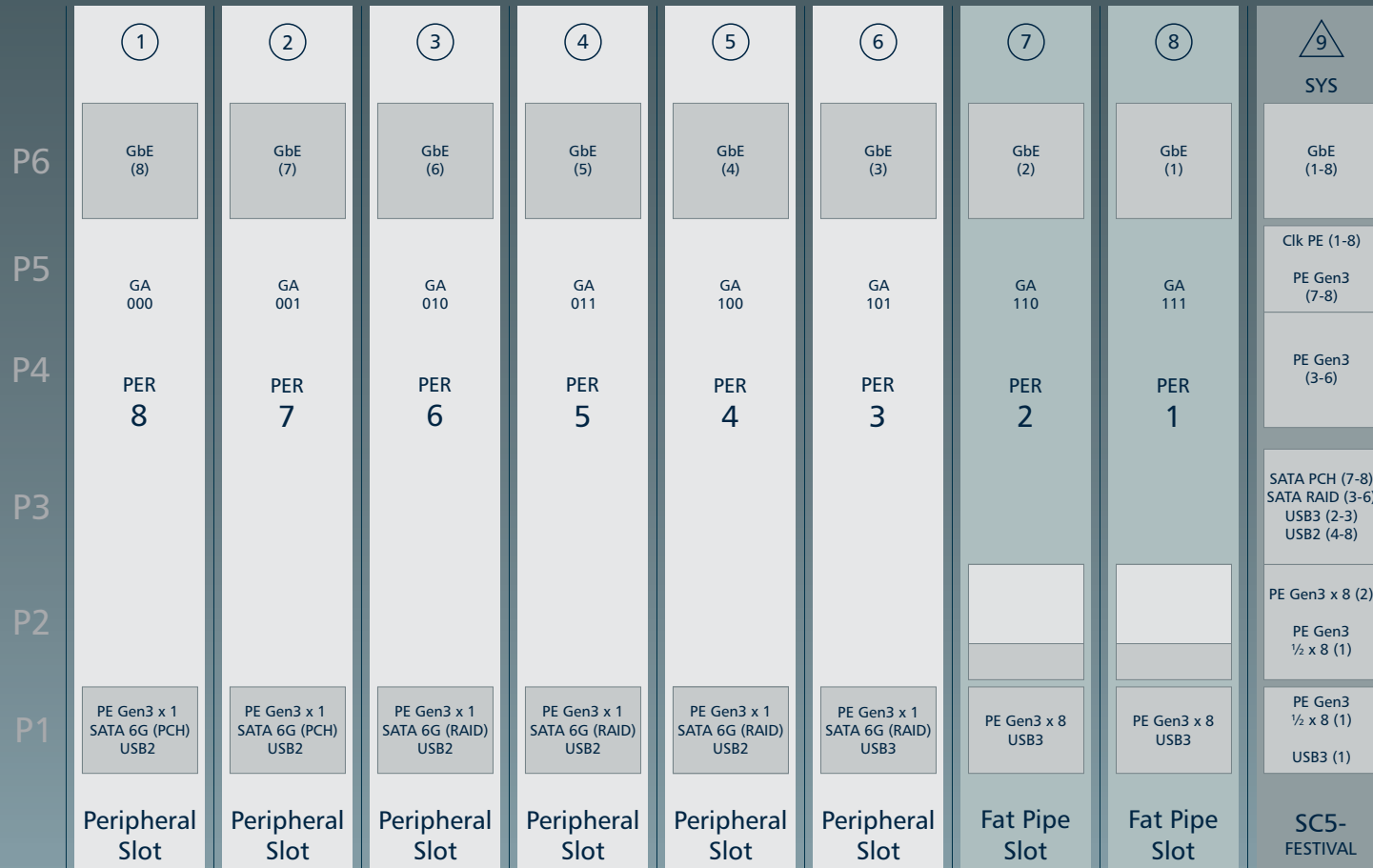
CompactPCI® Serial CPU Card

Mezzanine Side Cards for CPU Boards • Mass Storage - Networking - Mixed I/O • 8HP/12HP Assemblies
recommended usage with system slot right aligned backplane



CompactPCI® Serial CPU Card

SC5-FESTIVAL • Resources w. 1 +8 Slots Backplane (System Slot Right)



www.ekf.com/s/sc5/sc5.html

CompactPCI® Serial CPU Card

CPU (SystemBoard) • SC3-LARGO • CoolConduct® Technology for High Performance Industrial Computing
Multiprocessing & Parallel Computing • Heat Exchanger System



CoolConduct®

CompactPCI® Serial CPU Card

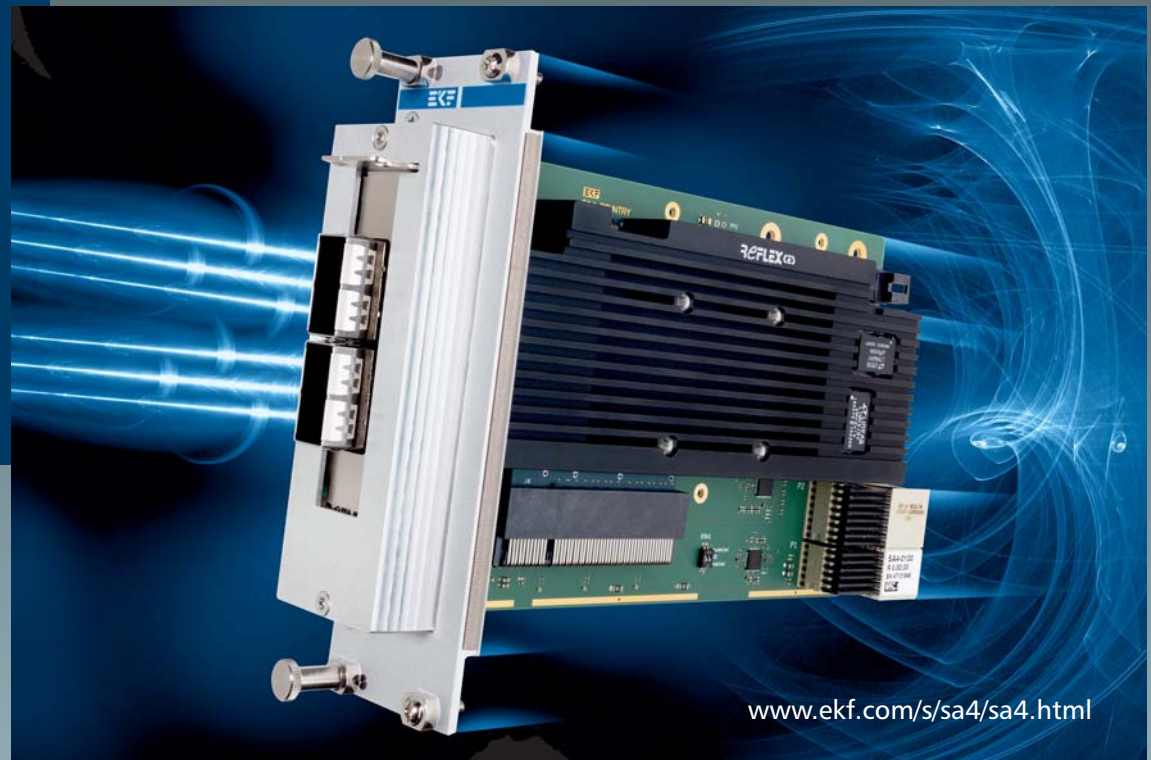
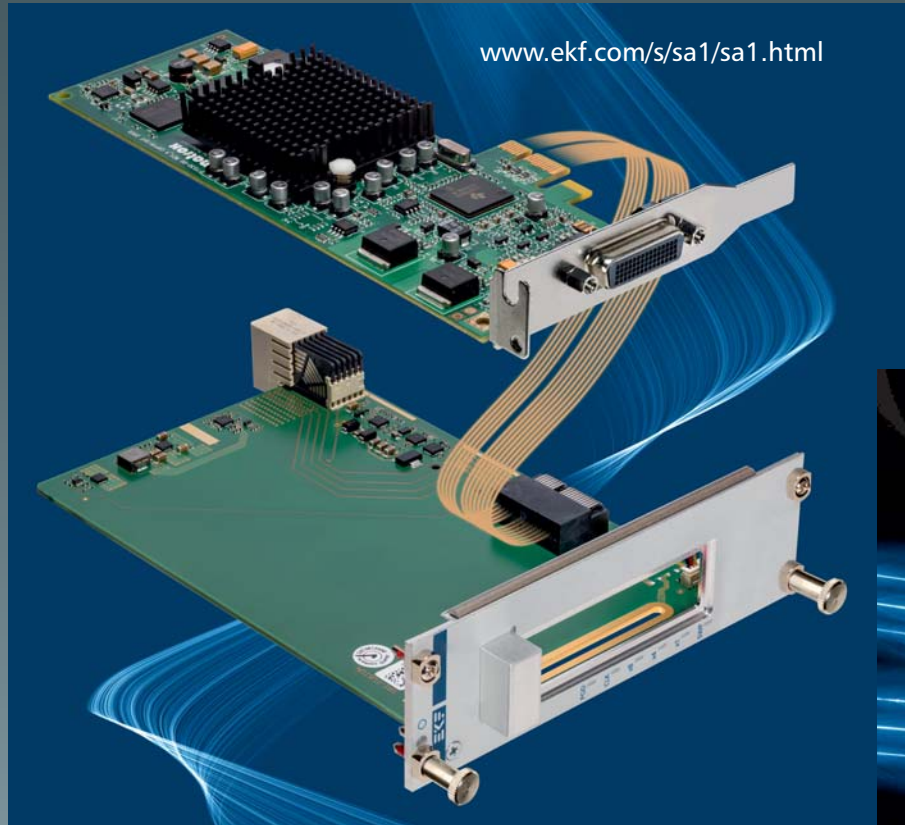
SC6-TANGO CPU • Low Power Apollo Lake-I Intel® Atom™ SoC E39xx

cool & reliable



CompactPCI® Serial Peripheral Card

Adapter Solutions • PCIe Card Carrier



CompactPCI® Serial - the Smart Solution

CompactPCI® Serial Peripheral Card

Standard I/O Ports • USB 3.0 & eSATA combo connectors



SB1-OBOE SB3-TONE • CompactPCI® Serial • © EKF • ekf.com

CompactPCI® Serial Peripheral Card

Standard I/O Ports • USB 3.0 & GbE



SBF-CROSSOVER • CompactPCI® Serial • © EKF • ekf.com

CompactPCI® Serial Peripheral Card

Standard I/O Ports • USB 3.0 • 4 x 4 Ports Front I/O & Rear I/O



www.ekf.com/applications/vision/ekf_vision_en.pdf



CompactPCI® Serial - the Smart Solution

SBX-DUB • CompactPCI® Serial • © EKF • ekf.com

CompactPCI® Serial Rear I/O Module

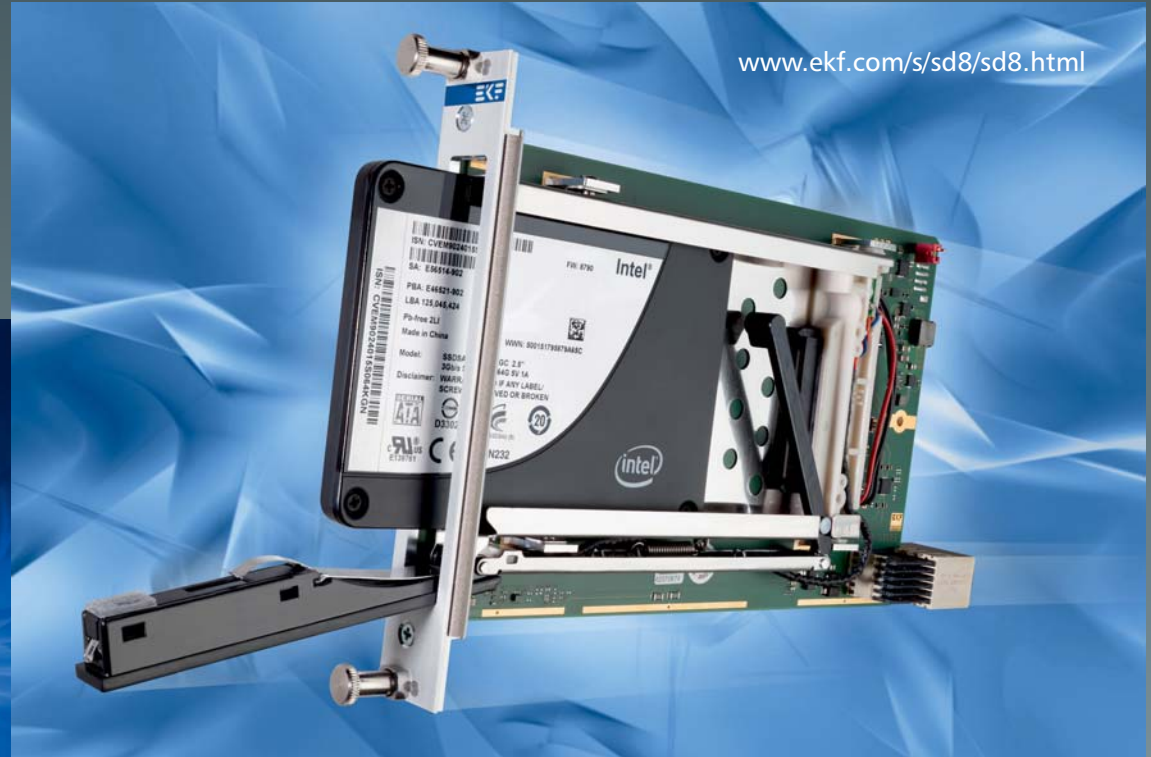
Standard I/O Ports • USB 3.0 • Front I/O & Rear I/O



SBR-RIO • CompactPCI® Serial • © EKF • ekf.com

CompactPCI® Serial Peripheral Card

Storage Solutions • SATA SSD fixed and removable



CompactPCI® Serial - the Smart Solution

SD1-DISCO SD8-STEEL • CompactPCI® Serial • © EKF • ekf.com

CompactPCI® Serial Peripheral Card

Storage Solutions • mSATA RAID • M.2 SATA RAID



CompactPCI® Serial - the Smart Solution

SD3-GLISS SD4-SWEEP • CompactPCI® Serial • © EKF • ekf.com

CompactPCI® Serial Peripheral Card

Storage Solutions • 6G SAS Controller

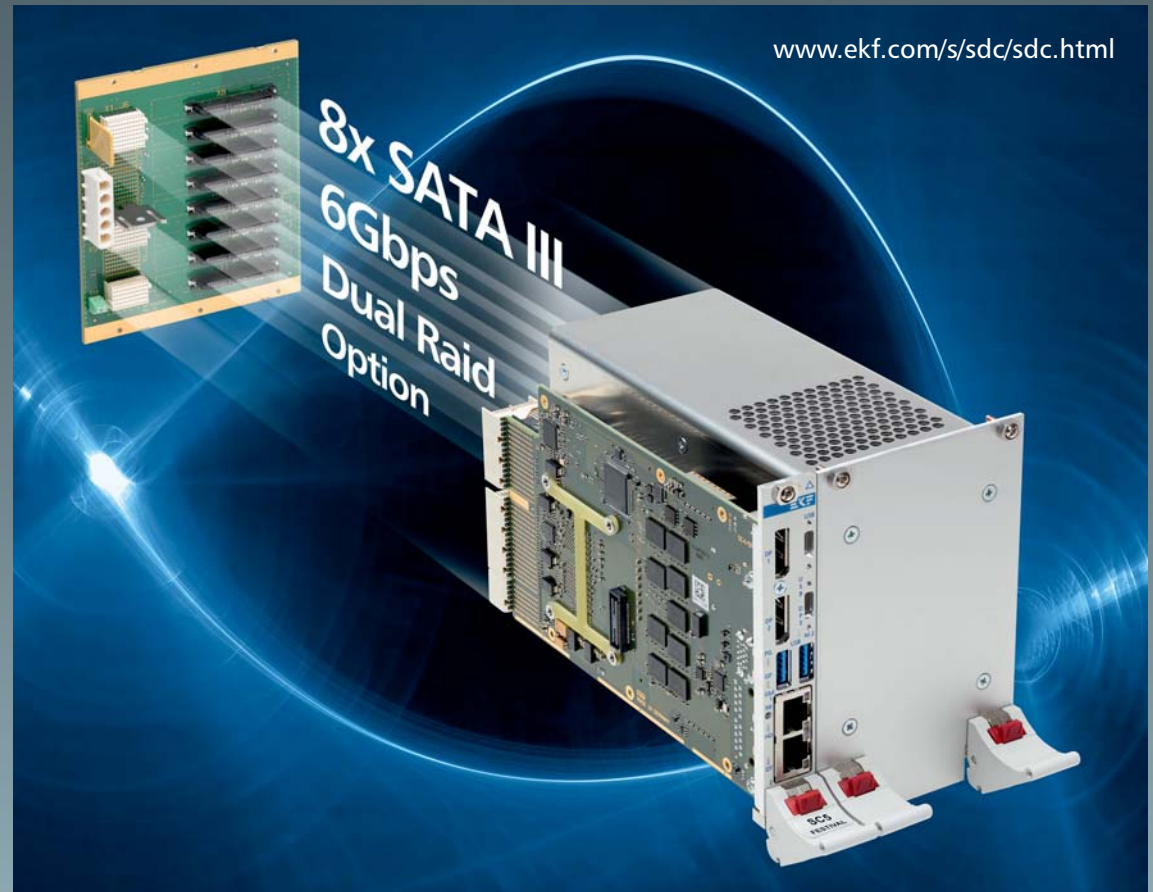


www.ekf.com/s/ss9/ss9.html

SS9-RAI • CompactPCI® Serial • © EKF • ekf.com

CompactPCI® Serial Peripheral Card

Storage Solutions • 3U/16HP 8 x SATA SSD Cassette



SDC-SATA • CompactPCI® Serial • © EKF • ekf.com

CompactPCI® Serial Peripheral Card

Storage Solutions • up to 4 x M.2 NVMe (PCIe®) • available w. clamshell



www.ekf.com/s/se4/se4.html



CompactPCI® Serial - the Smart Solution

SE4-TEMPO • CompactPCI® Serial • © EKF • ekf.com

CompactPCI® Serial Peripheral Card

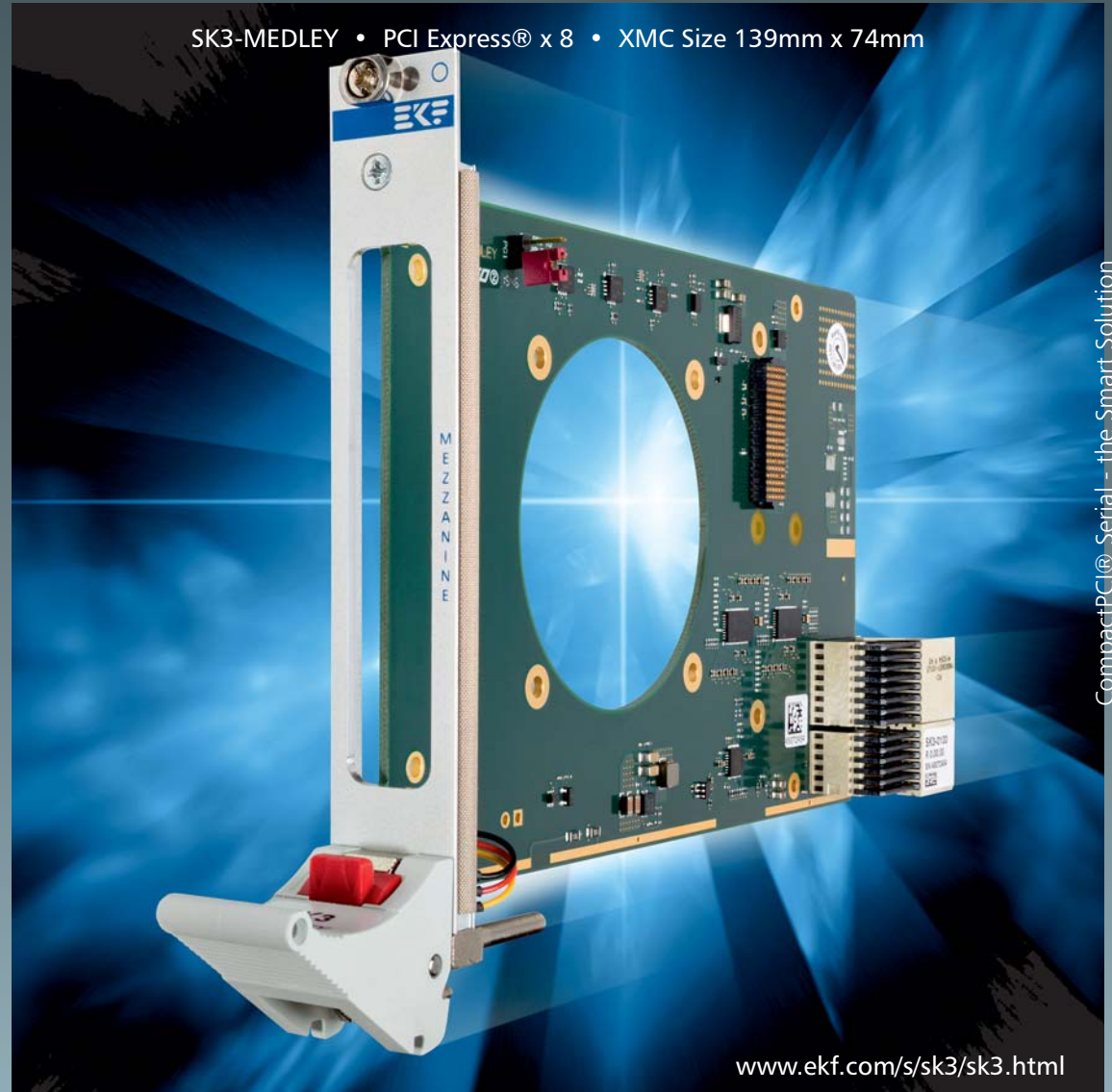
XMC Module Carrier

SK2-SESSION • PCI Express® x 4 • XMC Size 139/149mm x 74mm



www.ekf.com/s/sk2/sk2.html

SK3-MEDLEY • PCI Express® x 8 • XMC Size 139mm x 74mm



www.ekf.com/s/sk3/sk3.html

CompactPCI® Serial - the Smart Solution

CompactPCI® Serial Peripheral Card

XMC Module Carrier

PCI Express® x 8 • XMC Size 139/149mm • Rear I/O Option • Lengthened Front



CompactPCI® Serial - the Smart Solution

CompactPCI® Serial Peripheral Card

Networking (NIC) • 5-Port Gigabit Ethernet controller • RJ45 & M12



CompactPCI® Serial - the Smart Solution

SN1-REVERB SN2-VIBRATO • CompactPCI® Serial • © EKF • ekf.com

CompactPCI® Serial Peripheral Card

Networking (NIC) • Dual-Port 10 Gigabit Ethernet controller w. RJ45 jacks



www.ekf.com/s/sn3/sn3.html

SN3-GONG • CompactPCI® Serial • © EKF • ekf.com

CompactPCI® Serial Peripheral Card

Networking (NIC) • Dual-Port 10 Gigabit Ethernet controller w. SFP+ cages



SN5-TOMBAK • CompactPCI® Serial • © EKF • ekf.com

CompactPCI® Serial Peripheral Card

Networking (Switching) • 7-20 Port Gigabit Ethernet unmanaged switch



SL1-COMBO SL4-TUBA • CompactPCI® Serial • © EKF • ekf.com

CompactPCI® Serial Peripheral Card

Networking (Switching) • 9-Port Gigabit Ethernet switch • M12-X



www.ekf.com/s/sl2/sl2.html

SL2-BRASS • CompactPCI® Serial • © EKF • ekf.com

CompactPCI® Serial Peripheral Card

Networking (Switching) • Scalable Solutions w. or w/o CPU Card



CompactPCI® Serial - the Smart Solution

CompactPCI® Serial Peripheral Card

Networking (Industrial) • FPGA Based Universal Networking Platform



www.ekf.com/s/sy8/sy8.html

SY8-CYCLONE • CompactPCI® Serial • © EKF • ekf.com

CompactPCI® Serial Peripheral Card

Networking (Real-Time) • Industrial Ethernet & Fieldbus module carrier • CAN FD



CompactPCI® Serial - the Smart Solution

SF1-STUDIO SF2-CANDY • CompactPCI® Serial • © EKF • ekf.com

CompactPCI® Serial Peripheral Card

Automotive Test Solutions • FlexRay - CAN FD - LIN • Vector USB module carrier

www.ekf.com/s/sfv/sfv.html



SFV-RAY • CompactPCI® Serial • © EKF • ekf.com

CompactPCI® Serial Peripheral Card

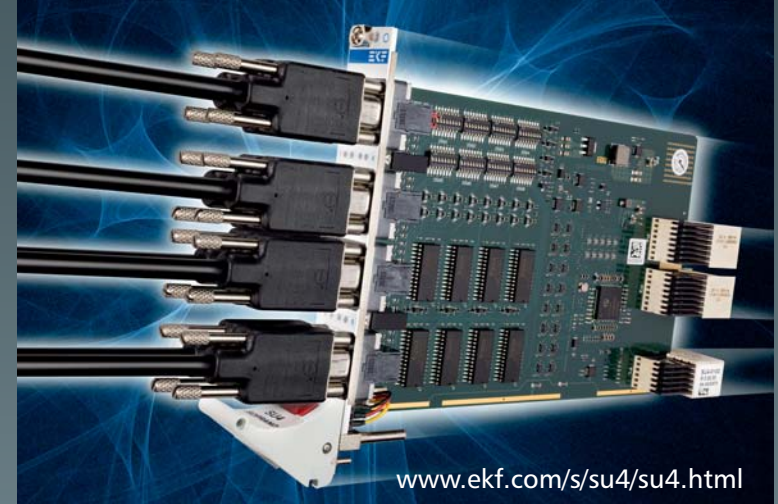
Wireless Technologies • up to 8 x WWAN • 4 x M.2 & 4 x soldered



SPY-RIG & SPX-PHASE • CompactPCI® Serial • © EKF • ekf.com

CompactPCI® Serial Peripheral Card

8-Port UART • RS-485 & RS-232 Isolated • RS-485 & RS-232 Configurable • RIO Option



SU4-SOPRANO • CompactPCI® Serial • © EKF • ekf.com

CompactPCI® Serial Peripheral Card

Graphics/AI • MXM 3.0 module carrier (DisplayPort & CUDA)



SV2-MOVIE • CompactPCI® Serial • © EKF • ekf.com

CompactPCI® Serial System Expansion

PCI Express® External Cabling • Host System Adapter

Dual PCIe® x4 • Dual PCIe® x8 • MPO/MTP Optical



www.ekf.com/s/sx6/sx6.html

SX6-FIREWORKS • CompactPCI® Serial • © EKF • ekf.com

CompactPCI® Serial System Expansion

PCI Express® External Cabling • Target System Adapter

PCIe® x8 • MPO/MTP Optical



High Performance Embedded Made in Germany



boards. systems. solutions.