CompactPCI® Serial ...

EKF SYSTEM
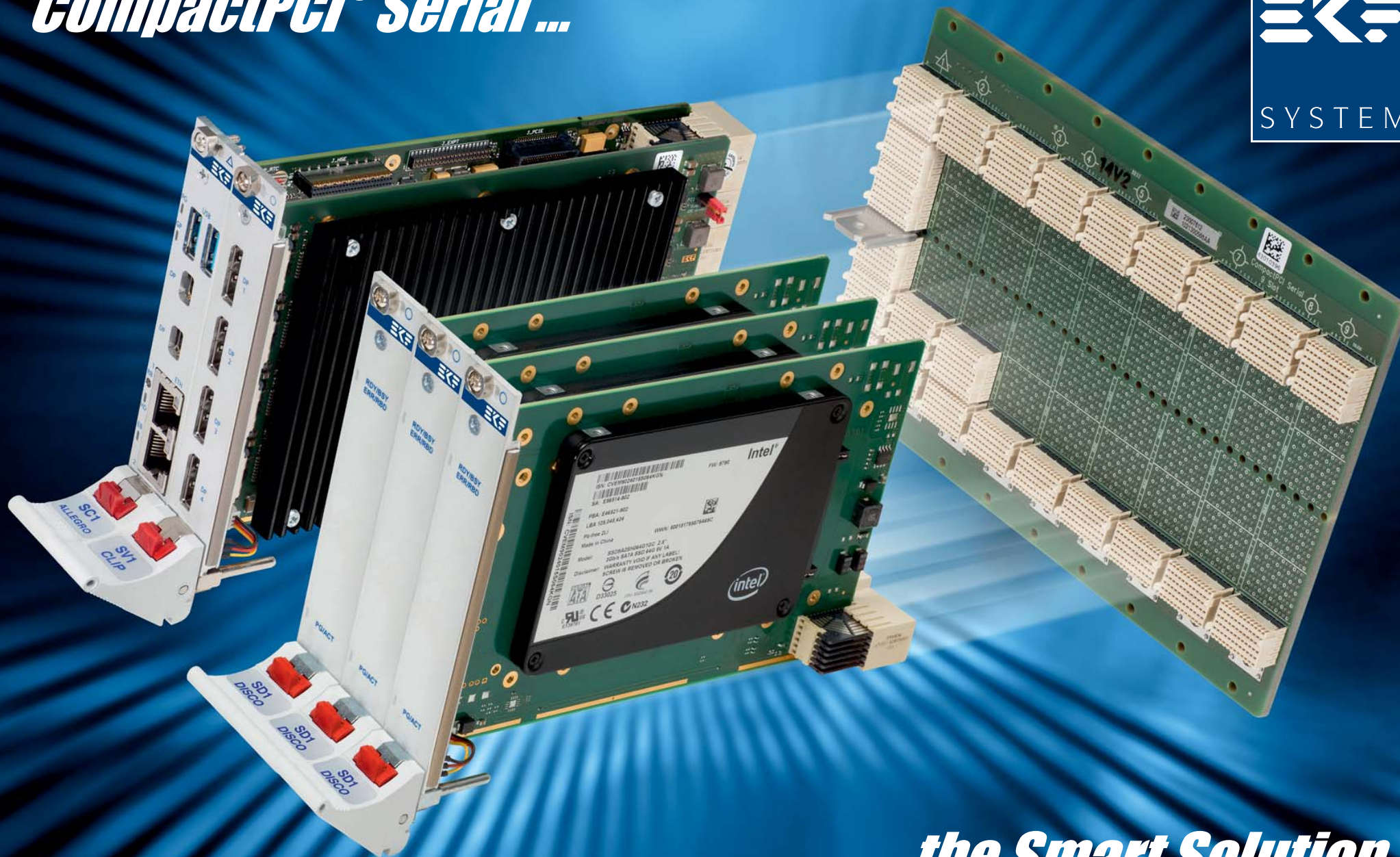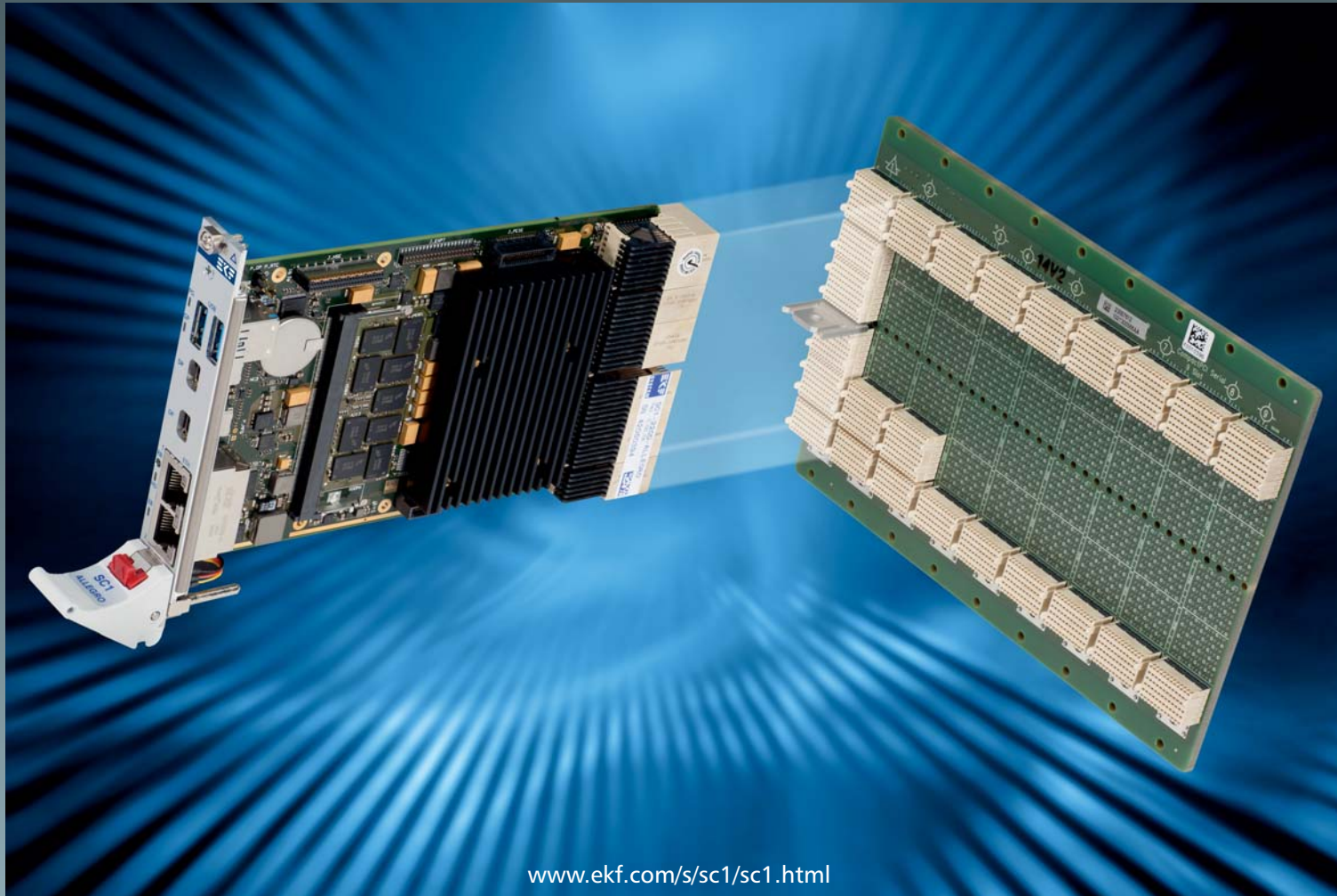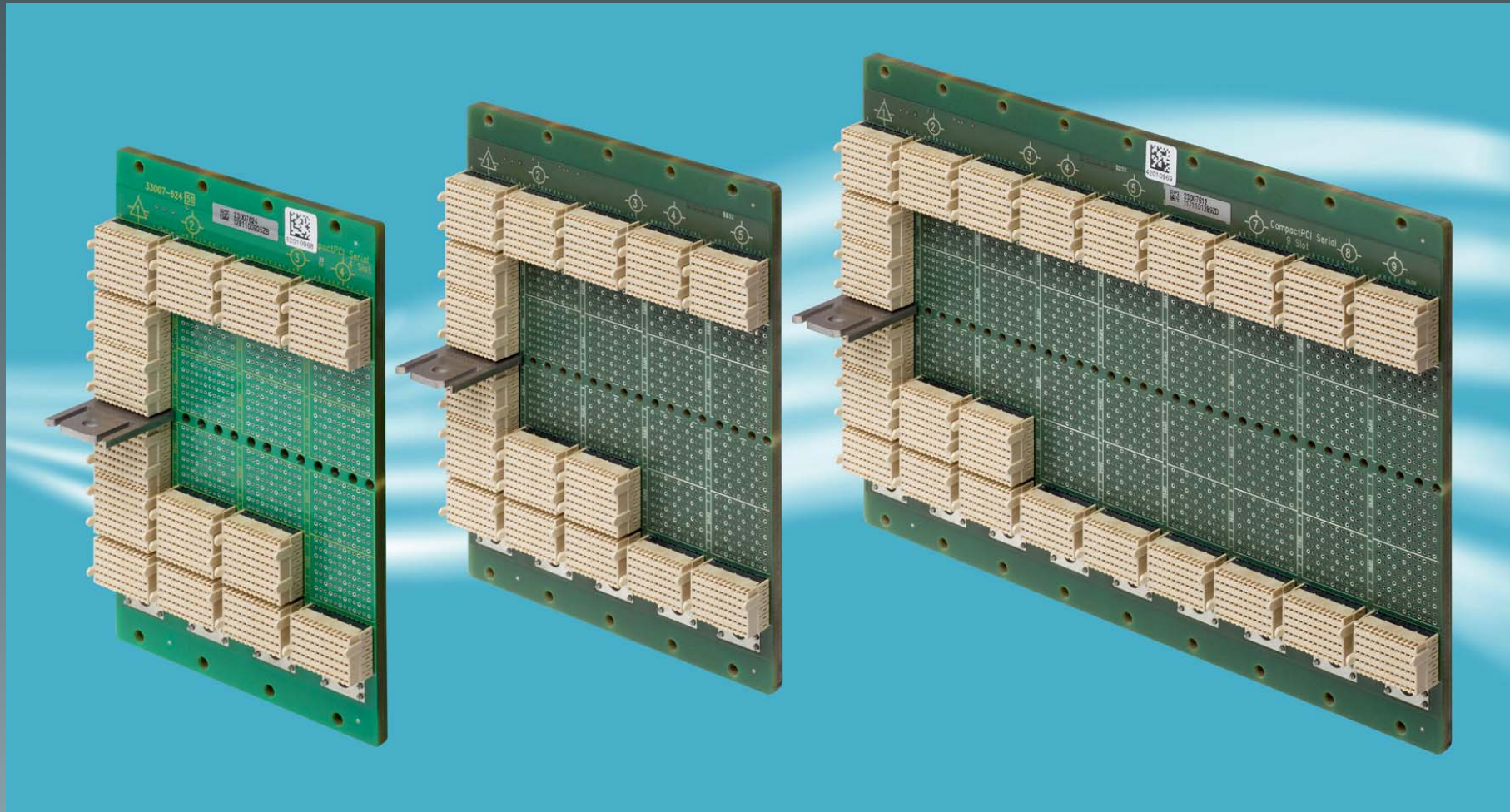
... the Smart Solution

CompactPCI® Serial Systems

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

www.ekf.com/s/sc1/sc1.html

CompactPCI® Serial - the Smart Solution

CompactPCI® Serial Systems

CPCI Serial backplanes for optimum throughput

Sample Backplanes CompactPCI® Serial

CompactPCI® Serial - the Smart Solution

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

www.ekf.com/s/serial.html
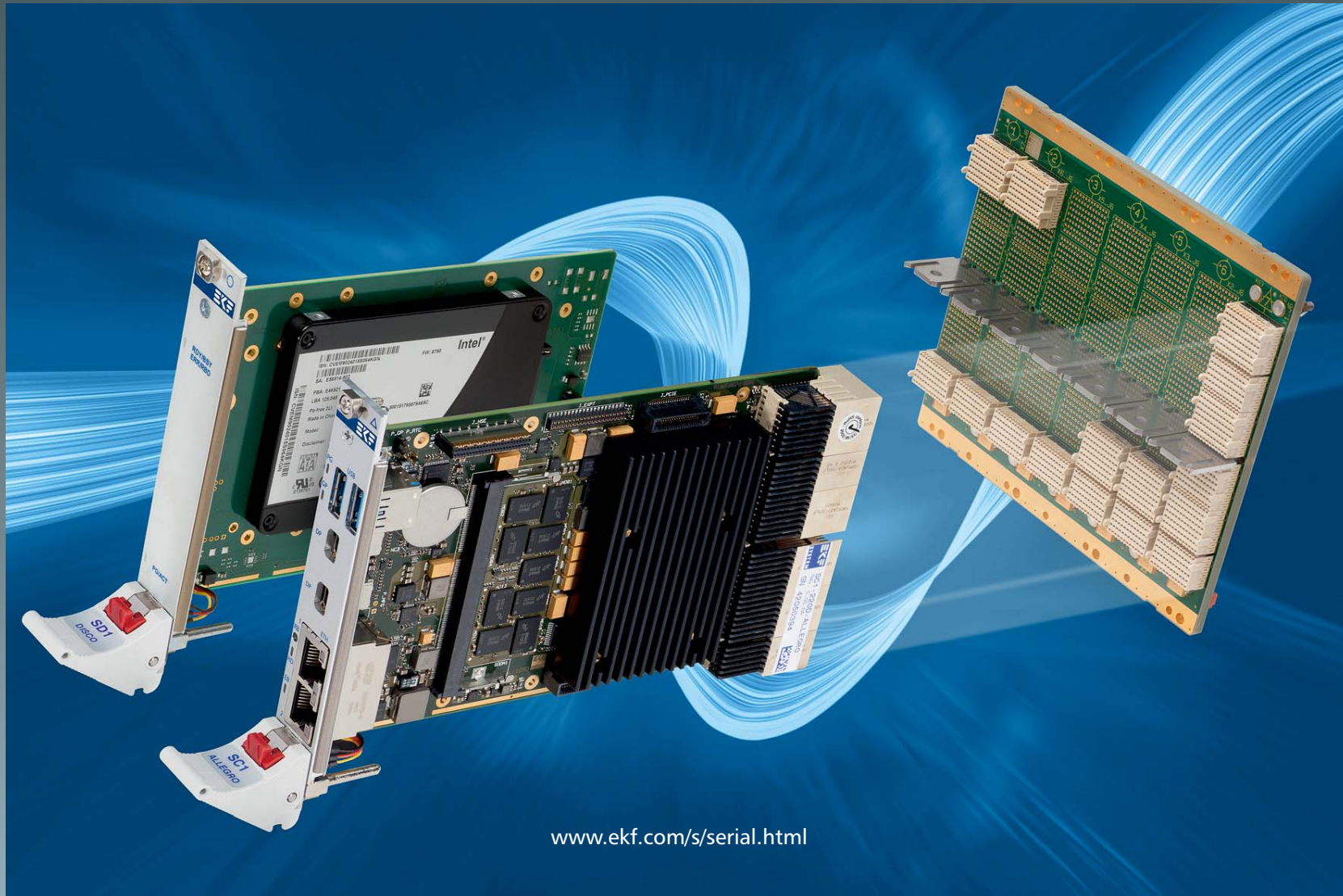
CompactPCI® Serial - the Smart Solution

CompactPCI® Serial Systems

CPCI Serial BluBoxx series - small and economic

CompactPCI® Serial - the Smart Solution

SRS-3201-BLUBOXX CompactPCI® Serial

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/srs8423/srs8423.html

CompactPCI® Serial - the Smart Solution
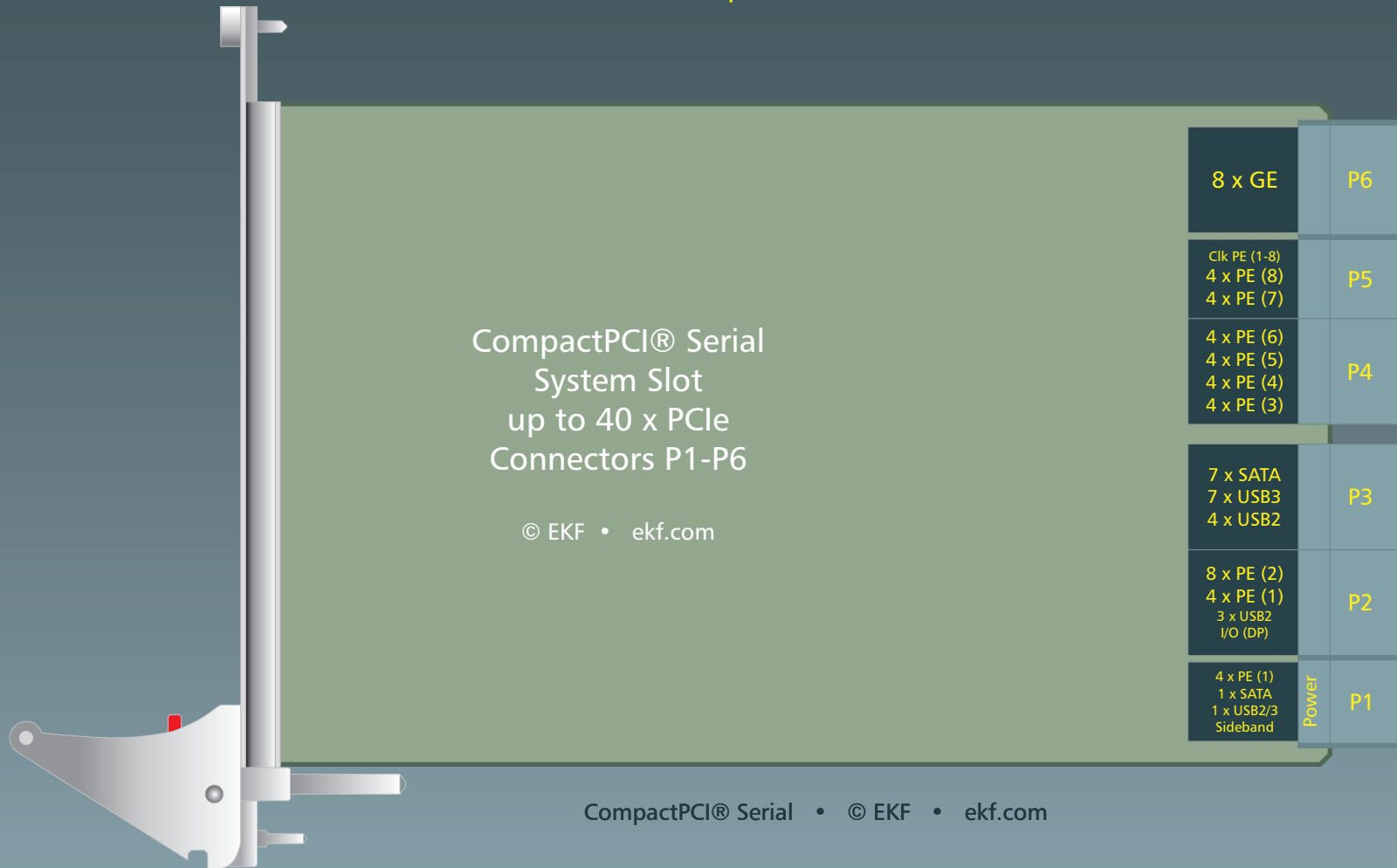
SRS-8423-SERIAL CompactPCI® Serial

CompactPCI® Serial Systems

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

www.ekf.com/s/serial.html

CompactPCI® Serial - the Smart Solution
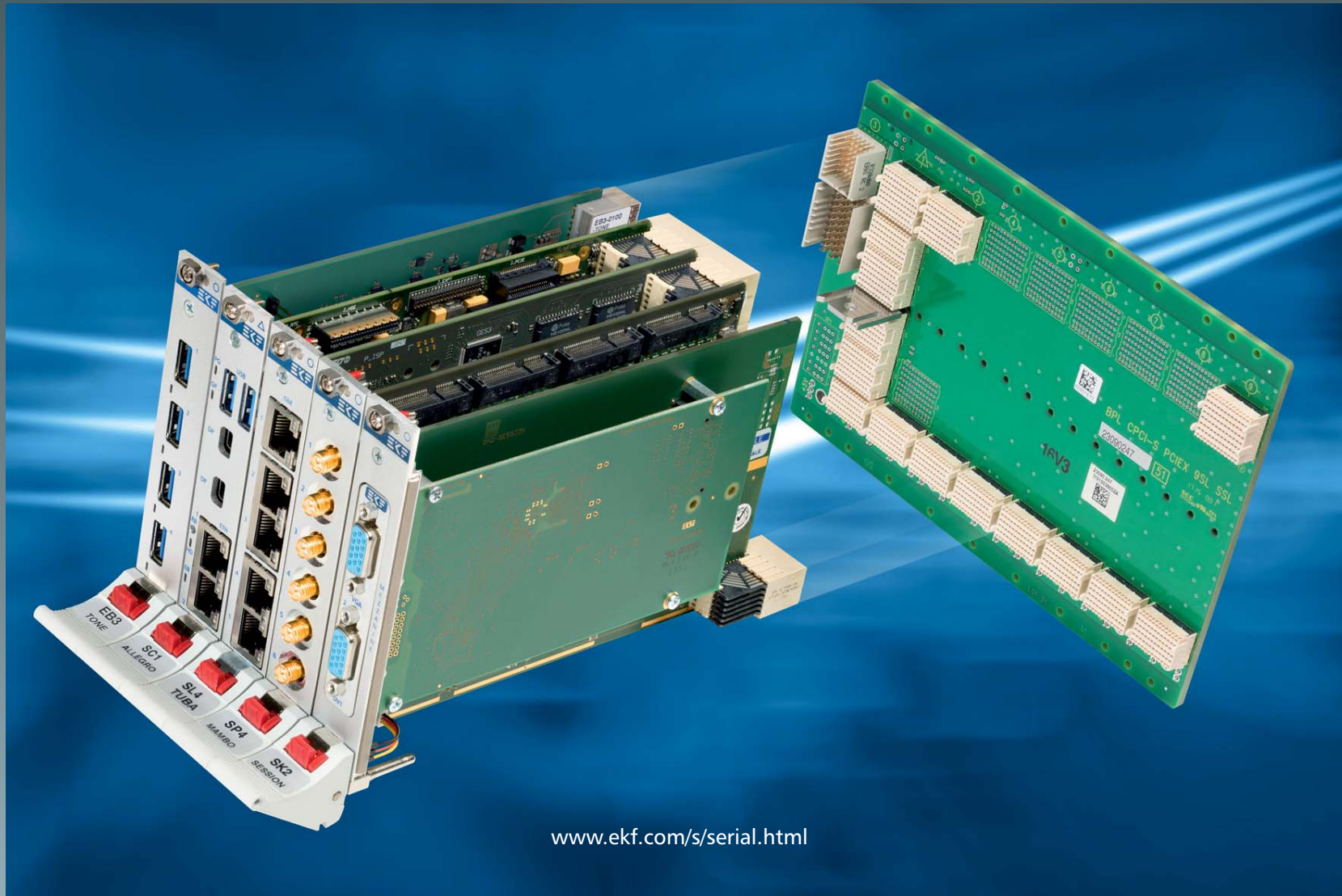
CompactPCI® Serial Connectors

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

CompactPCI® Serial
System Slot
up to 40 x PCIe
Connectors P1-P6

© EKF • ekf.com

8 x GE	P6
Clk PE (1-8) 4 x PE (8) 4 x PE (7)	P5
4 x PE (6) 4 x PE (5) 4 x PE (4) 4 x PE (3)	P4
7 x SATA 7 x USB3 4 x USB2	P3
8 x PE (2) 4 x PE (1) 3 x USB2 I/O (DP)	P2
4 x PE (1) 1 x SATA 1 x USB2/3 Sideband	Power	P1

Gigabit Ethernet
star architecture
or full mesh

CompactPCI® Serial • © EKF • ekf.com

CompactPCI® Serial - the Smart Solution

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
Peripheral Card Fat Pipe Slot
8 x PCIe
Connectors P1-P2 (P6 Option)

© EKF • ekf.com

8 x GE Option	P6
RIO Option	P5
RIO Option	P4
RIO Option	P3
RIO 4 x PE (1)	P2
4 x PE (1) 1 x SATA 1 x USB2/3 Sideband / Power	P1

CompactPCI® Serial • © EKF • ekf.com

CompactPCI® Serial - the Smart Solution
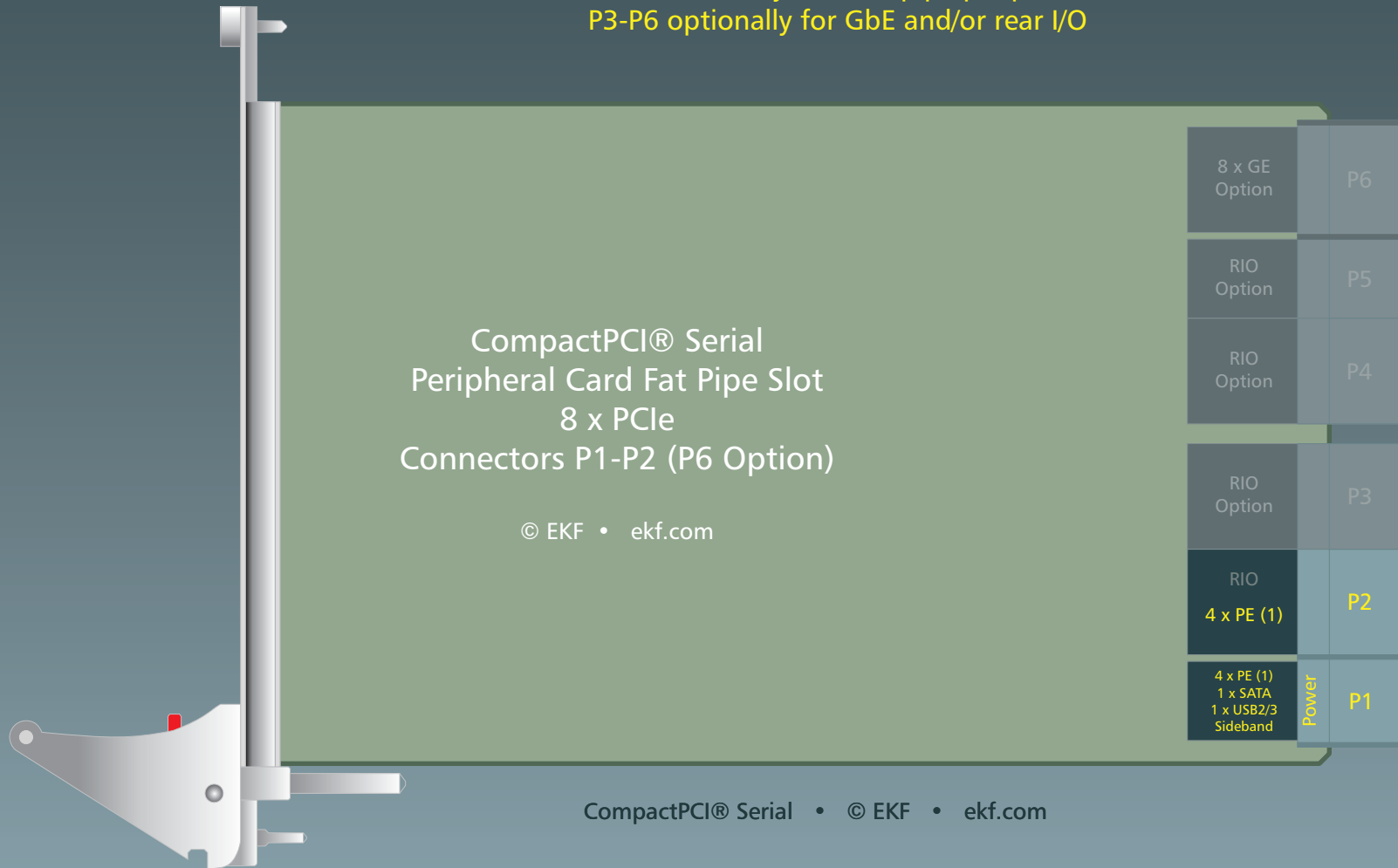
CompactPCI® Serial Connectors

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
Peripheral Card Standard Slot
1 to 4 x PCIe
Connector P1 (P6 Option)

© EKF • ekf.com

8 x GE Option	P6
RIO Option	P5
RIO Option	P4
RIO Option	P3
RIO Option	P2
4 x PE (1) 1 x SATA 1 x USB2/3 Sideband	Power	P1

CompactPCI® Serial • © EKF • ekf.com

CompactPCI® Serial - the Smart Solution
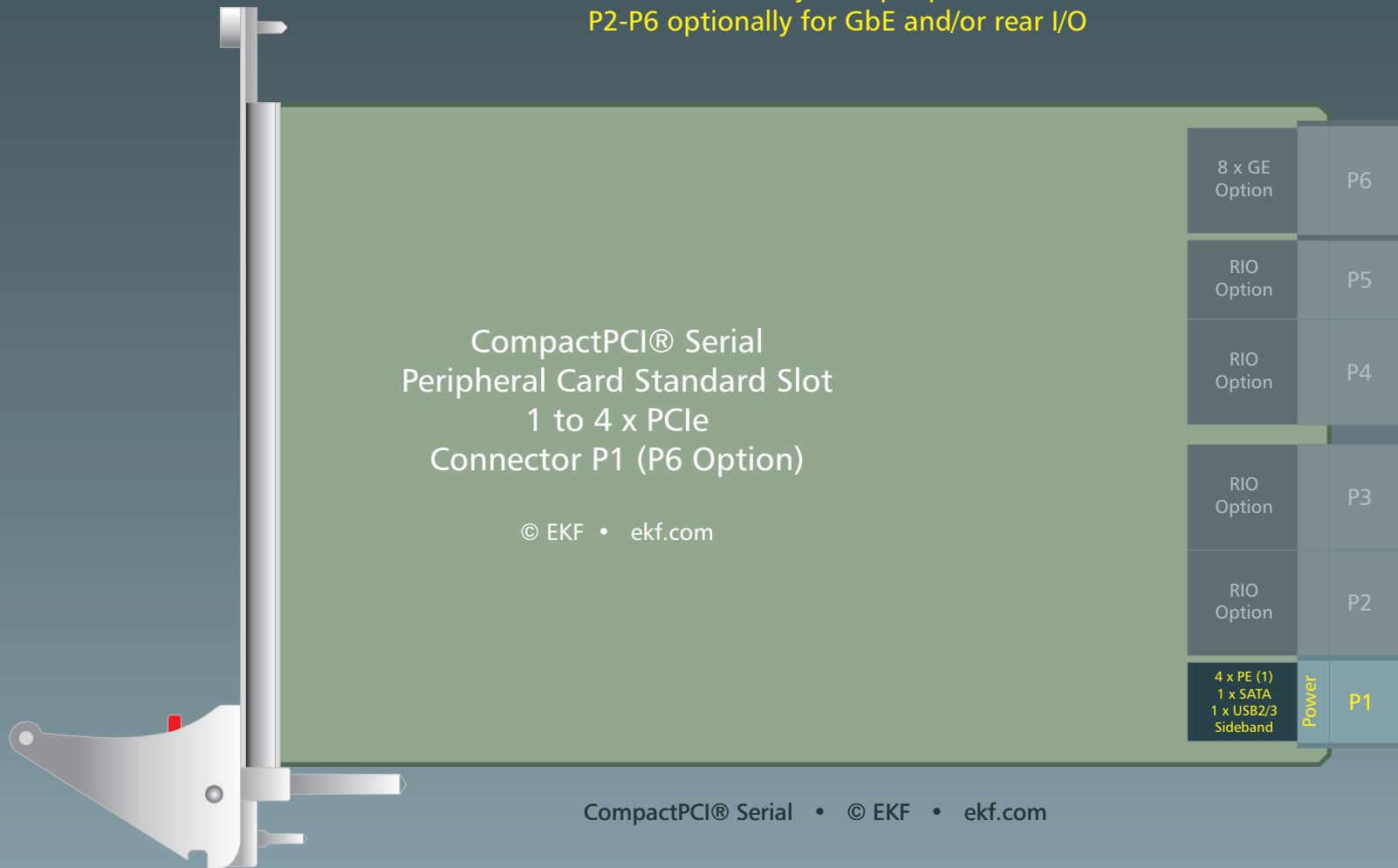
CompactPCI® Serial Systems

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

www.ekf.com/s/serial.html

CompactPCI® Serial - the Smart Solution
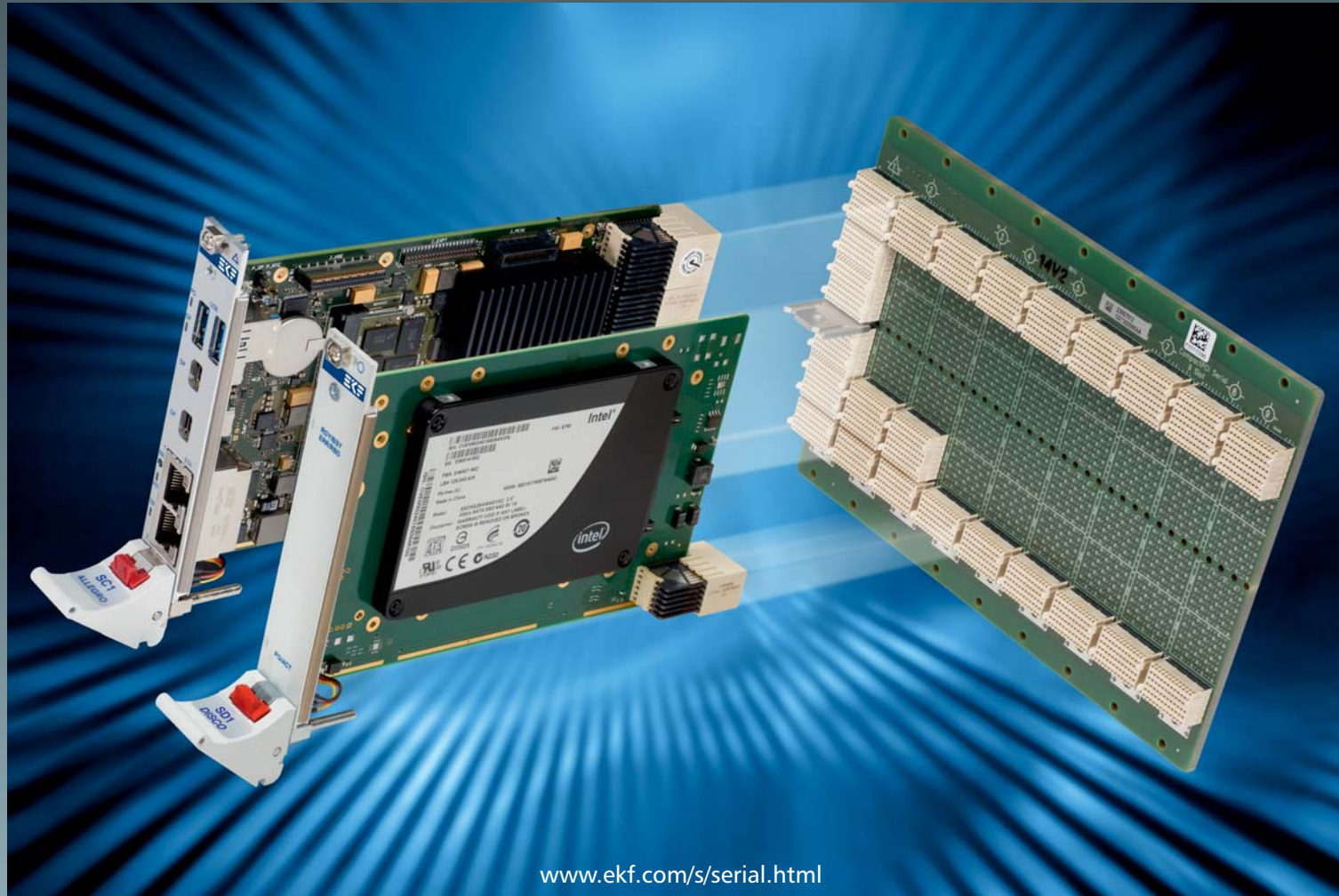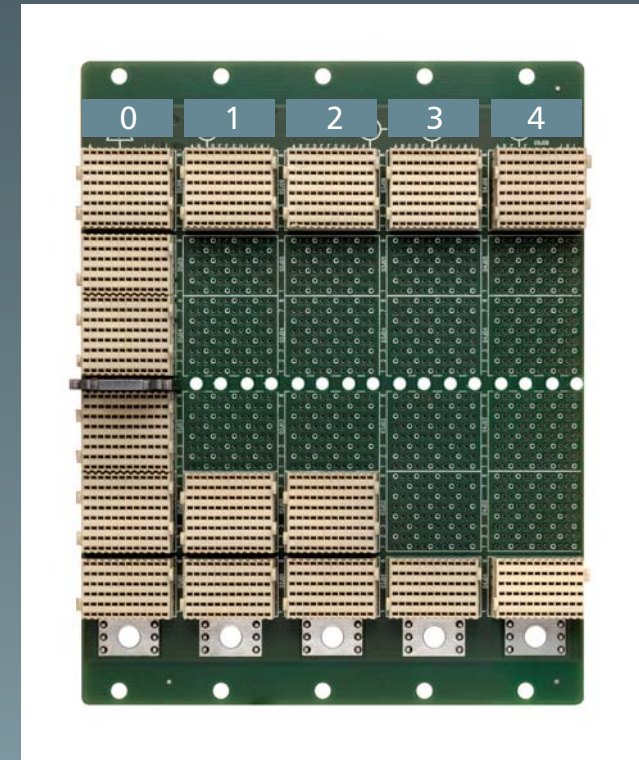
CompactPCI® Serial Connectors Filling Order Rules

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.

CompactPCI® Serial - the Smart Solution
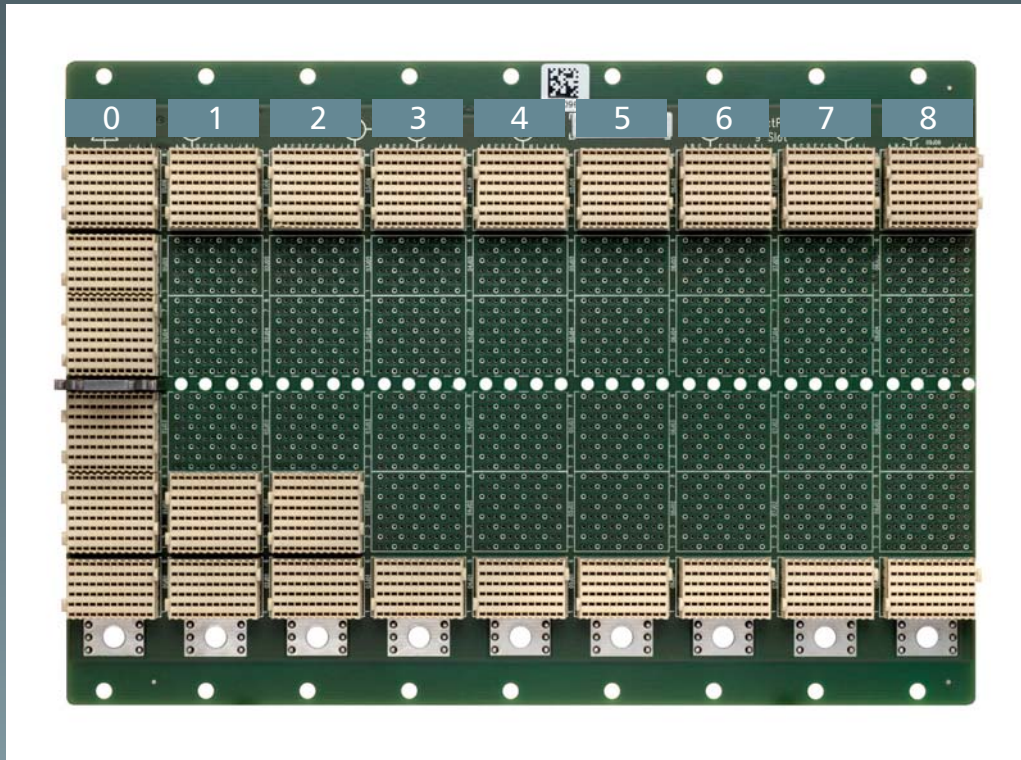
PE Link	1	2	3	4	5	6	7	8
USB	1	2	3	4	5	6	7	8
SATA	8	7	6	5	4	3	2	1
GbE	1	2	3	4	5	6	7	8

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

CompactPCI® Serial Connectors • Slot Types

System Slot J1-6 • Fat Pipe Slots J1-2, Option J6 • Peripheral Slots J1, Option J6
Positions not filled: RIO Option

Left labels (top to bottom):
- 8 x GE
- Clk PE (1-8) / 4 x PE (8) / 4 x PE (7)
- 4 x PE (6) / 4 x PE (5) / 4 x PE (4) / 4 x PE (3)
- 7 x SATA / 7 x USB3 / 4 x USB2
- 8 x PE (2) / 4 x PE (1) / 3 x USB2 / I/O (DP)
- 4 x PE (1) / 1 x SATA / 1 x USB2/3 / Sideband

Right labels (top to bottom):
- GE Option
- RIO Option
- RIO Option
- RIO Option
- RIO Option
- 4 x PE / 1 x SATA / 1 x USB2/3 / Sideband

On-board callouts:
- GE Option
- RIO Option
- RIO Option
- RIO Option
- RIO Option
- 4 x PE
- 4 x PE / 1 x SATA / 1 x USB2/3 / Sideband
- J6, J5, J4, J3, J2, J1

Bottom labels:
- System Slot
- Fat Pipe
- Fat Pipe
- Peripheral Slots

CompactPCI® Serial - the Smart Solution

CompactPCI® Serial CPU Card

CPU (SystemBoard) • SC2-PRESTO • 4th Generation Intel® Core™ Processor
General Usage

www.ekf.com/s/sc2/sc2.html

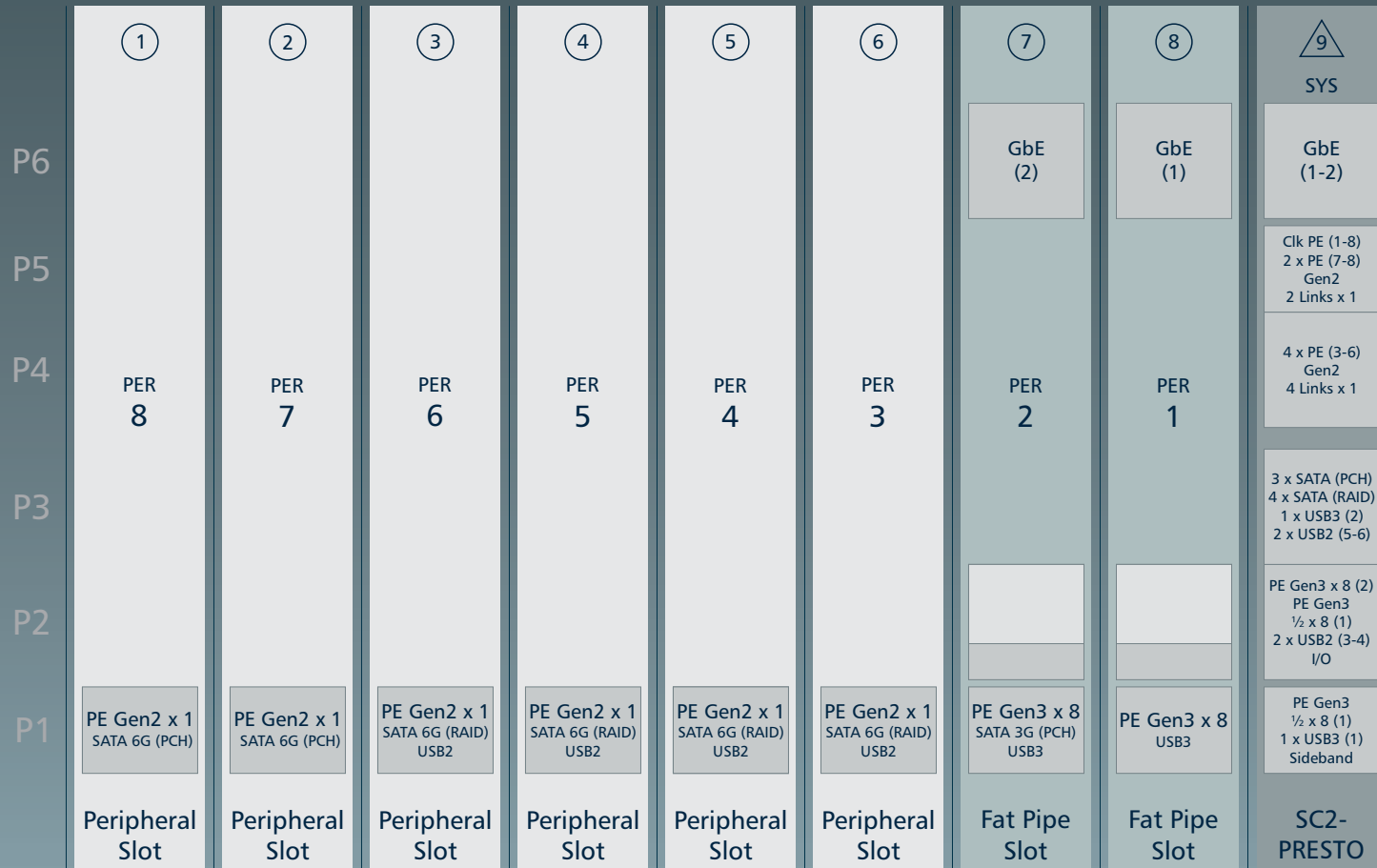CompactPCI® Serial - the Smart Solution

CompactPCI® Serial CPU Card

CPU (SystemBoard) • SC3-LARGO • 5th Generation Intel® Core™ Processor High Performance

www.ekf.com/s/sc3/sc3.html

CompactPCI® Serial - the Smart Solution

CompactPCI® Serial CPU Card

SC2-PRESTO R.1 • Resources w. 1+8 Slots Backplane (System Slot Right)

	①	②	③	④	⑤	⑥	⑦	⑧	⚠ ⑨ SYS
P6							GbE (2)	GbE (1)	GbE (1-2)
P5									Clk PE (1-8) 2 x PE (7-8) Gen2 2 Links x 1
P4	PER 8	PER 7	PER 6	PER 5	PER 4	PER 3	PER 2	PER 1	4 x PE (3-6) Gen2 4 Links x 1
P3									3 x SATA (PCH) 4 x SATA (RAID) 1 x USB3 (2) 2 x USB2 (5-6)
P2									PE Gen3 x 8 (2) PE Gen3 ½ x 8 (1) 2 x USB2 (3-4) I/O
P1	PE Gen2 x 1 SATA 6G (PCH)	PE Gen2 x 1 SATA 6G (PCH)	PE Gen2 x 1 SATA 6G (RAID) USB2	PE Gen2 x 1 SATA 6G (RAID) USB2	PE Gen2 x 1 SATA 6G (RAID) USB2	PE Gen2 x 1 SATA 6G (RAID) USB2	PE Gen3 x 8 SATA 3G (PCH) USB3	PE Gen3 x 8 USB3	PE Gen3 ½ x 8 (1) 1 x USB3 (1) Sideband
	Peripheral Slot	Peripheral Slot	Peripheral Slot	Peripheral Slot	Peripheral Slot	Peripheral Slot	Fat Pipe Slot	Fat Pipe Slot	SC2-PRESTO

www.ekf.com/s/sc2/sc2.html

CompactPCI® Serial - the Smart Solution

CompactPCI® Serial CPU Card

CPU Mezzanine Side Card • SCS-TRUMPET • Storage & I/O Local Expansion (8HP or 12HP front panel assembly)

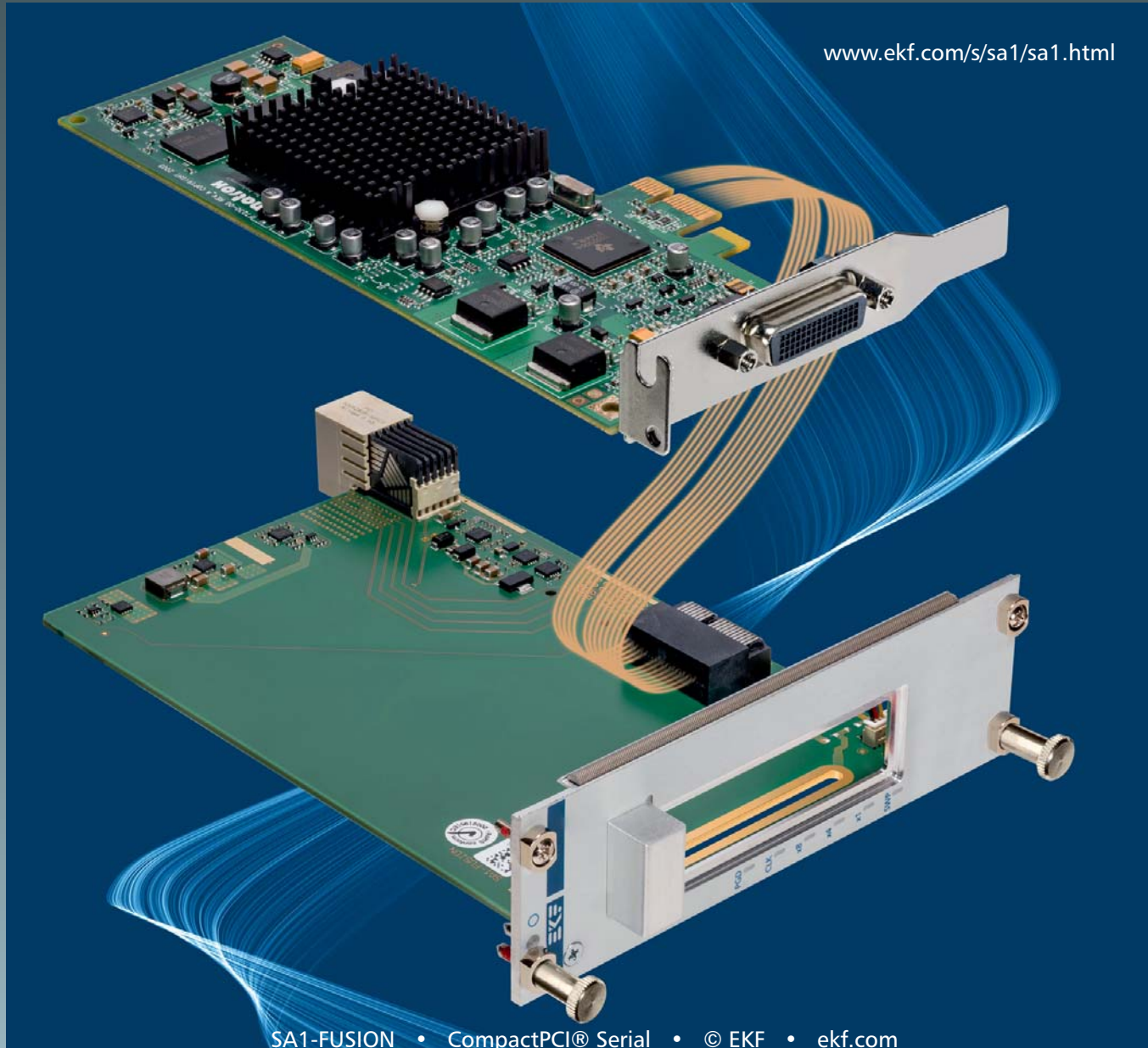### typical usage with system slot right aligned backplane

CompactPCI® Serial - the Smart Solution

www.ekf.com/s/scs/scs.html

© EKF • www.ekf.com

CompactPCI® Serial Peripheral Card

Adapter Solutions • PCIe Card Carrier

www.ekf.com/s/sa1/sa1.html

SA1-FUSION • CompactPCI® Serial • © EKF • ekf.com

CompactPCI® Serial - the Smart Solution

CompactPCI® Serial Peripheral Card

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

www.ekf.com/s/sb1/sb1.html

eSATA USB 1

eSATA USB 2

eSATA USB 3

eSATA USB 4

CompactPCI® Serial - the Smart Solution

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

CompactPCI® Serial Peripheral Card

Standard I/O Ports • USB 3.0

www.ekf.com/s/sb3/sb3.html

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

CompactPCI® Serial Peripheral Card

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

www.ekf.com/s/sbx/sbx.html

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

CompactPCI® Serial - the Smart Solution

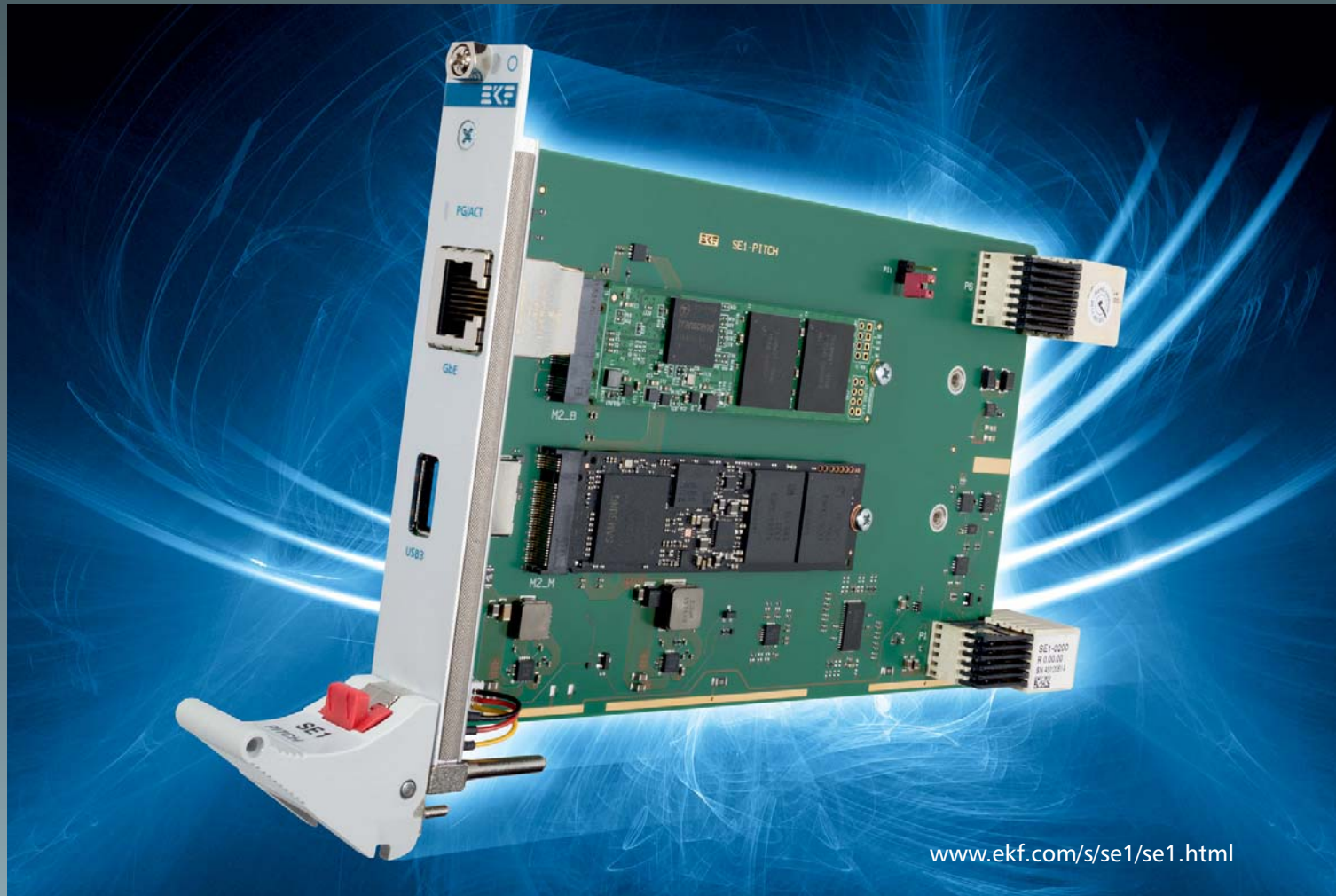www.ekf.com/s/sbr/sbr.html

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

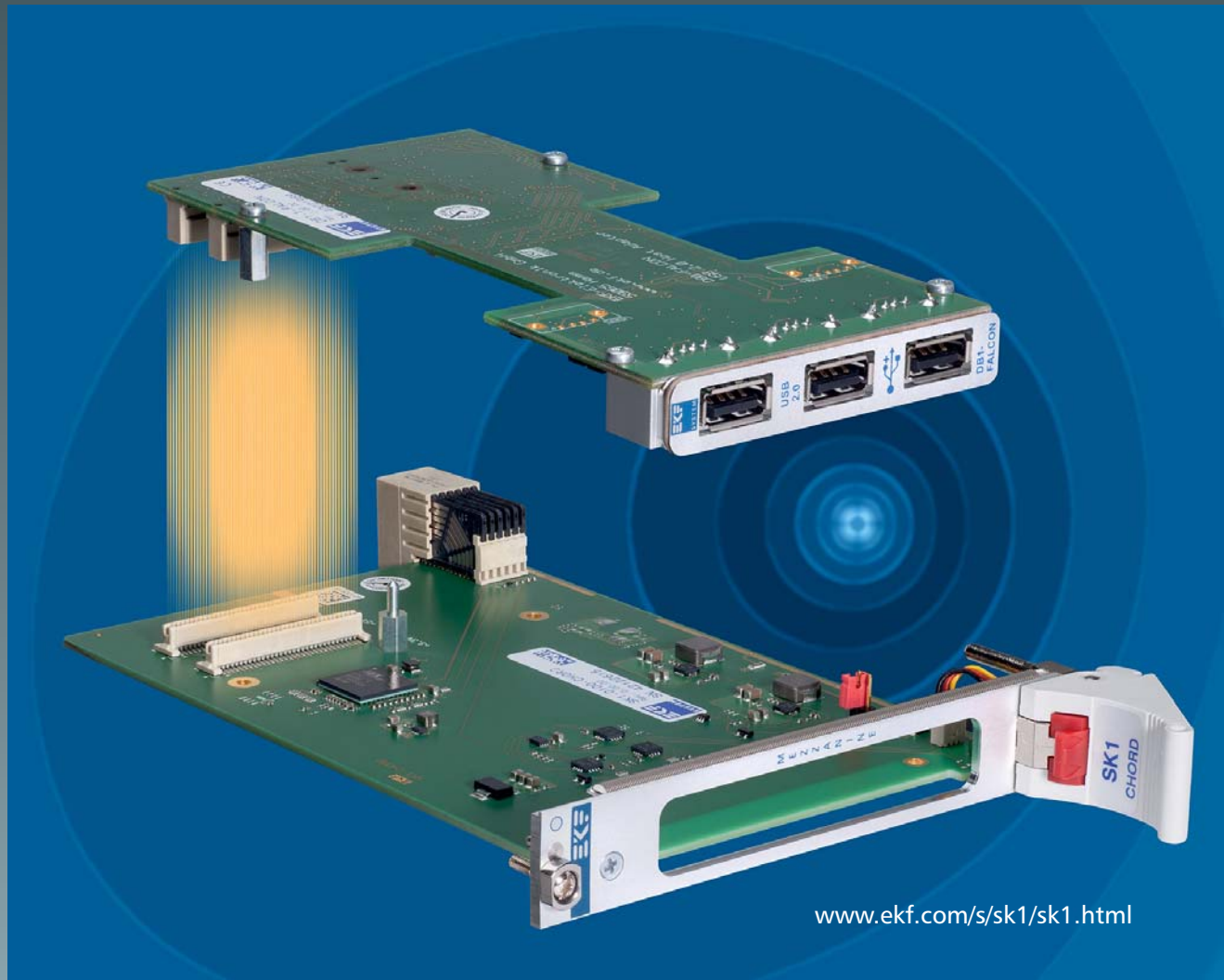# CompactPCI® Serial Peripheral Card

Storage Solutions • SATA SSD

www.ekf.com/s/sd1/sd1.html

CompactPCI® Serial - the Smart Solution

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

CompactPCI® Serial Peripheral Card

Storage Solutions • mSATA RAID

www.ekf.com/s/sd3/sd3.html

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SD3-GLISS Quad mSATA 6G RAID   •   CompactPCI® Serial   •   © EKF   •   ekf.com

CompactPCI® Serial Peripheral Card

Storage Solutions • M.2 SATA RAID

www.ekf.com/s/sd4/sd4.html

SD4-SWEEP Quad M.2 SATA 6G RAID   •   CompactPCI® Serial   •   © EKF   •   ekf.com

CompactPCI® Serial Peripheral Card

Storage Solutions • Removable 2.5-inch SATA SSD

www.ekf.com/s/sd8/sd8.html

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

CompactPCI® Serial Peripheral Card

Storage Solutions • 6G SAS Controller

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

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

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CompactPCI® Serial Peripheral Card

Storage Solutions • M.2 NVMe (PCIe)

www.ekf.com/s/se1/se1.html

CompactPCI® Serial - the Smart Solution

SE1-PITCH • CompactPCI® Serial • © EKF • ekf.com

CompactPCI® Serial Peripheral Card

PMC/XMC Carrier • PMC Module

www.ekf.com/s/sk1/sk1.html

SK1-CHORD • CompactPCI® Serial • © EKF • ekf.com

CompactPCI® Serial - the Smart Solution

CompactPCI® Serial Peripheral Card

PMC/XMC Carrier • XMC Module

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

CompactPCI® Serial - the Smart Solution
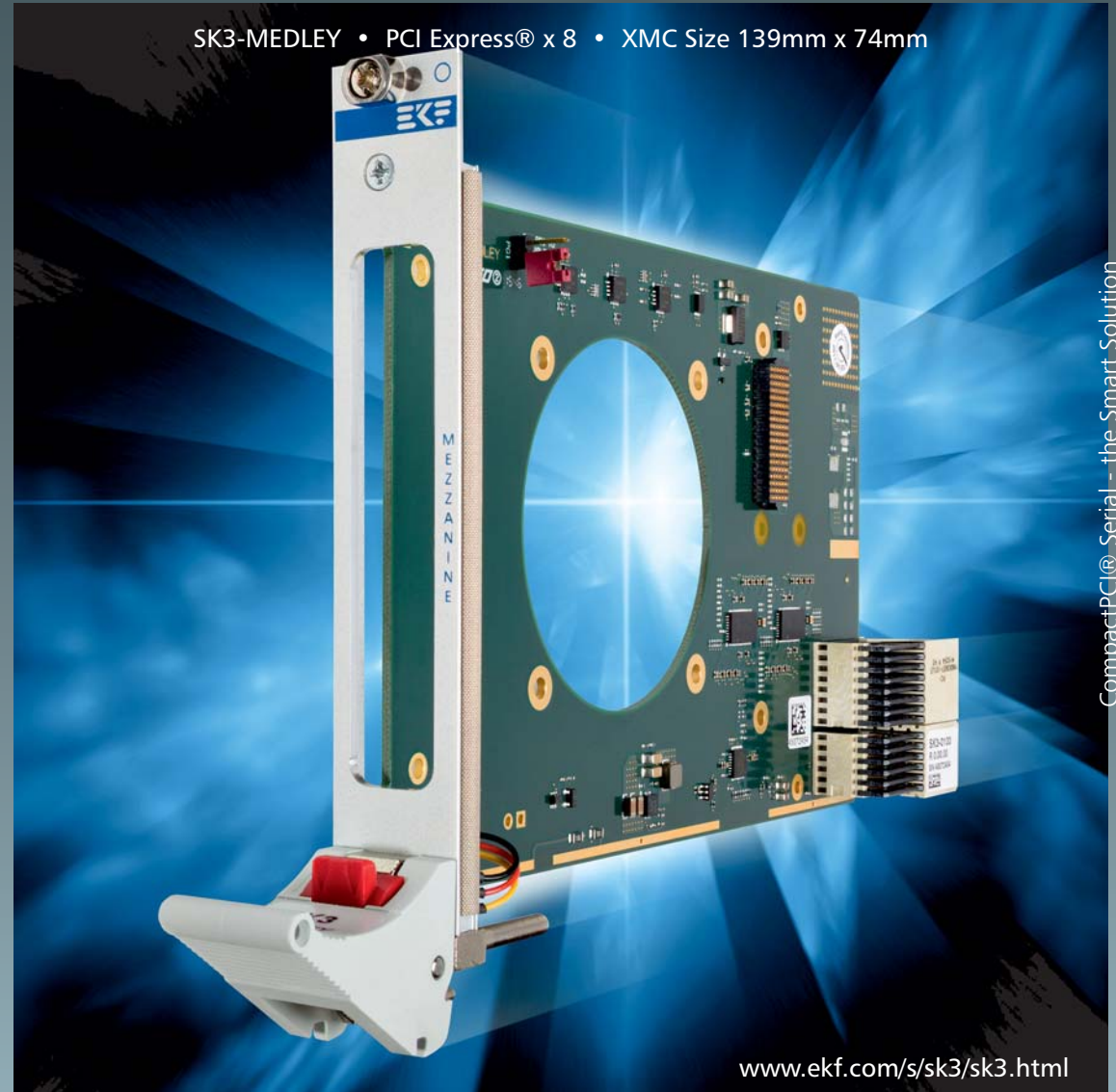
www.ekf.com/s/sk3/sk3.html

CompactPCI® Serial Peripheral Card

Networking (NIC) • 5-Port Gigabit Ethernet controller

www.ekf.com/s/sn1/sn1.html

CompactPCI® Serial - the Smart Solution

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

CompactPCI® Serial Peripheral Card

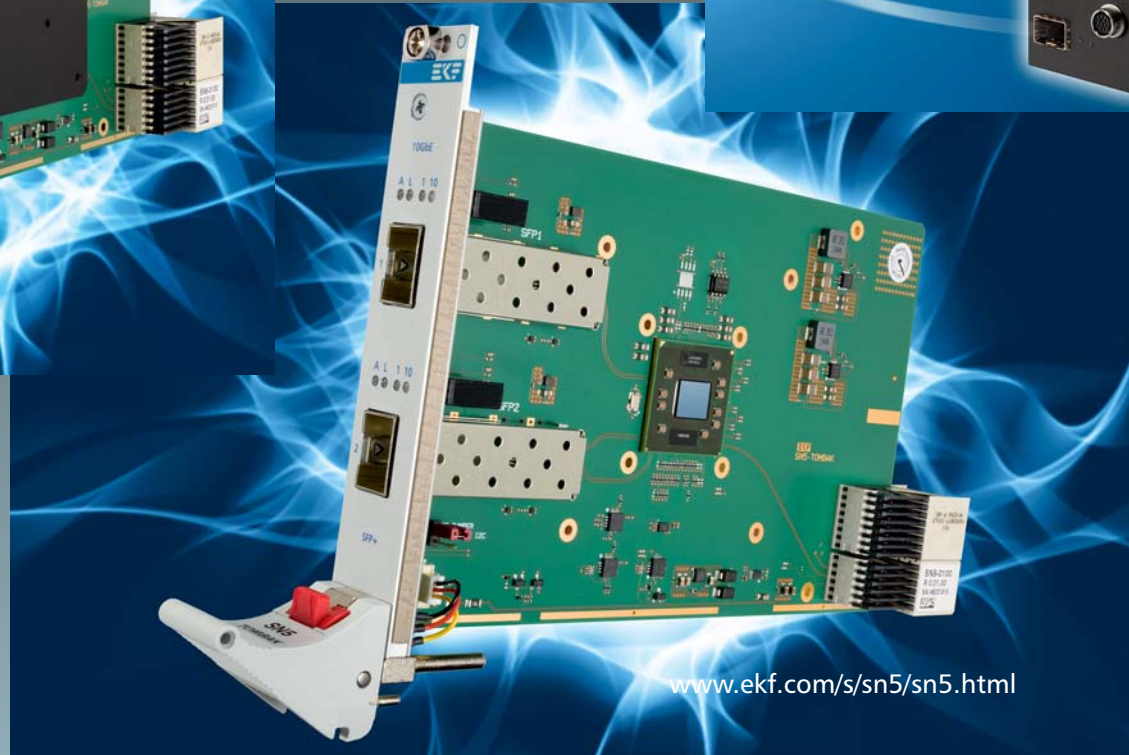## Networking (NIC) • 5-Port Gigabit Ethernet controller w. M12 connectors

www.ekf.com/s/sn2/sn2.html

CompactPCI® Serial - the Smart Solution

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

CompactPCI® Serial Peripheral Card

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

10GbE

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

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

CompactPCI® Serial Peripheral Card

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

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CompactPCI® Serial Peripheral Card

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

www.ekf.com/s/sl1/sl1.html

CompactPCI® Serial - the Smart Solution

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

CompactPCI® Serial Peripheral Card

Networking (Switching) • 9-Port Gigabit Ethernet switch w. GbE controller • M12-X F/P and RIO (option) • in-band management

CompactPCI® Serial - the Smart Solution

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

CompactPCI® Serial Peripheral Card

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

www.ekf.com/s/sl4/sl4.html

CompactPCI® Serial - the Smart Solution

CompactPCI® Serial Peripheral Card

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

www.ekf.com/s/sf1/sf1.html

CompactPCI® Serial - the Smart Solution

CompactPCI® Serial Peripheral Card

Adapter Solutions • ExpressCard™ and 1.8-Inch SATA SSD

SP1-BANJO • CompactPCI® Serial • © EKF • ekf.com

www.ekf.com/s/sp1/sp1.html

CompactPCI® Serial - the Smart Solution

CompactPCI® Serial Peripheral Card

Wireless Technologies • PCI Express Mini Card & μSATA SSD

www.ekf.com/s/sp2/sp2.html

CompactPCI® Serial - the Smart Solution

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CompactPCI® Serial Peripheral Card

Wireless Technologies • 4 x PE Mini Card & 1 x mSATA • custom F/P design for I/O modules e.g. CAN 2.0B

www.ekf.com/s/sp4/sp4.html

CompactPCI® Serial - the Smart Solution

SP4-MAMBO • CompactPCI® Serial • © EKF • ekf.com

CompactPCI® Serial Peripheral Card

Wireless Technologies • 4 x M.2 LTE

www.ekf.com/s/spx/spx.html

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

CompactPCI® Serial Peripheral Card

8-Port UART • RS-485 & RS-232 Configurable • RIO Option
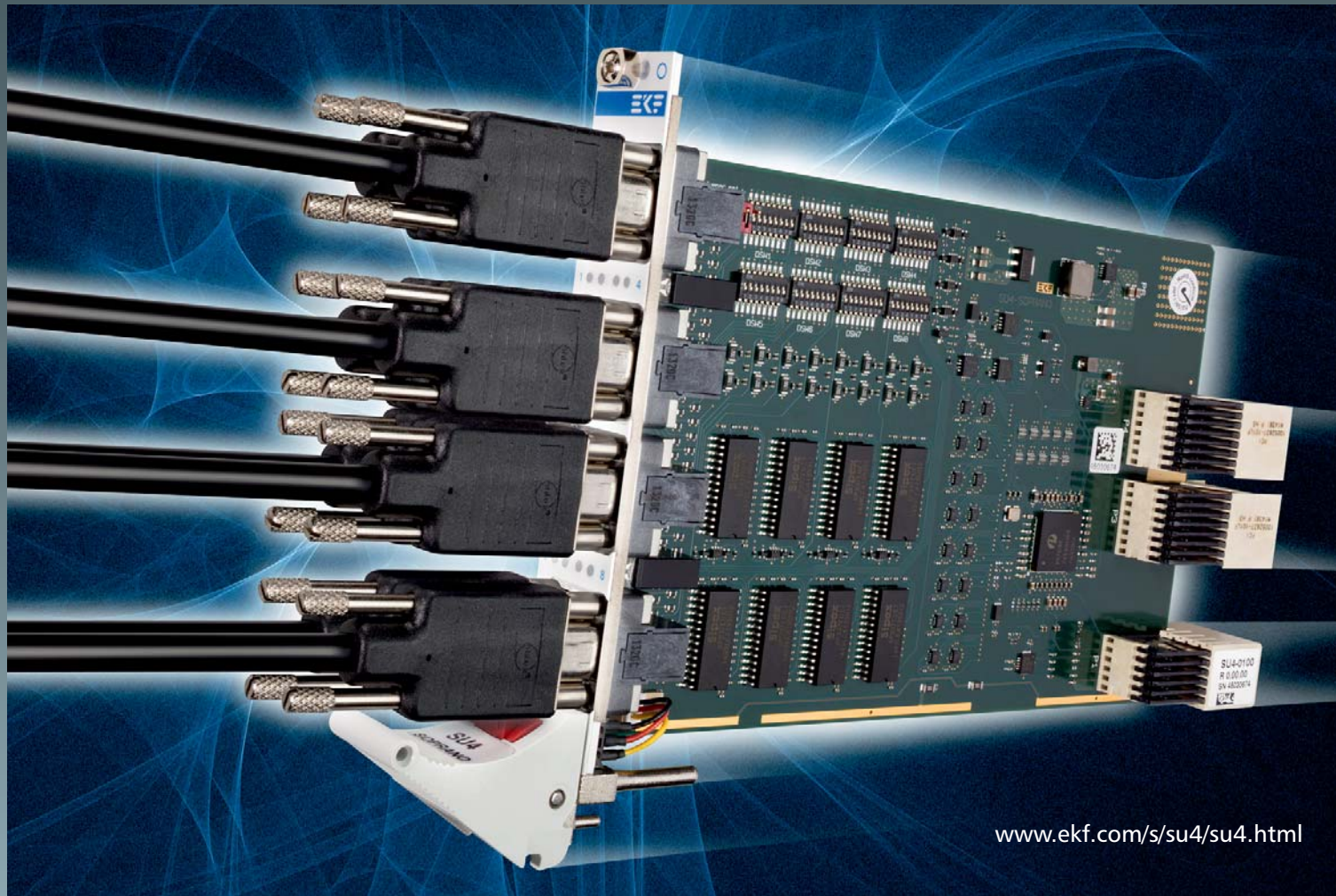
www.ekf.com/s/su4/su4.html

CompactPCI® Serial - the Smart Solution

CompactPCI® Serial Peripheral Card

UART • RS-485 & RS-232 Isolated I/O

www.ekf.com/s/su8/su8.html
www.ekf.com/s/su9/su9.html

CompactPCI® Serial - the Smart Solution

SU8-HUM (RS-485) SU9-RATTLE (RS-232) • CompactPCI® Serial • © EKF • ekf.com

CompactPCI® Serial Peripheral Card

DisplayPort • MXM 3.0 Type A graphics module carrier (low power)

www.ekf.com/s/sv1/sv1.html

DP 1

DP 2

DP 3

DP 4

CompactPCI® Serial - the Smart Solution

CompactPCI® Serial Peripheral Card

DisplayPort • MXM 3.0 Type B graphics module carrier (performance & CUDA)

www.ekf.com/s/sv2/sv2.html

CompactPCI® Serial - the Smart Solution

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

CompactPCI® Serial System Expansion

PCI Express® External Cabling • Host System Adapter
Dual 4-Lane Gen2 (2 x 20Gbps) • 7m Copper Cable - 300m AOC (Optical)

www.ekf.com/s/sx2/sx2.html

CompactPCI® Serial - the Smart Solution

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CompactPCI® Serial System Expansion

PCI Express® External Cabling • Typical Application

Distributed Computing & Measurement - Target

SRS-BLUBOXX

Main System - Host

Active Optical Cable - up to 300m

Removable Storage - Target
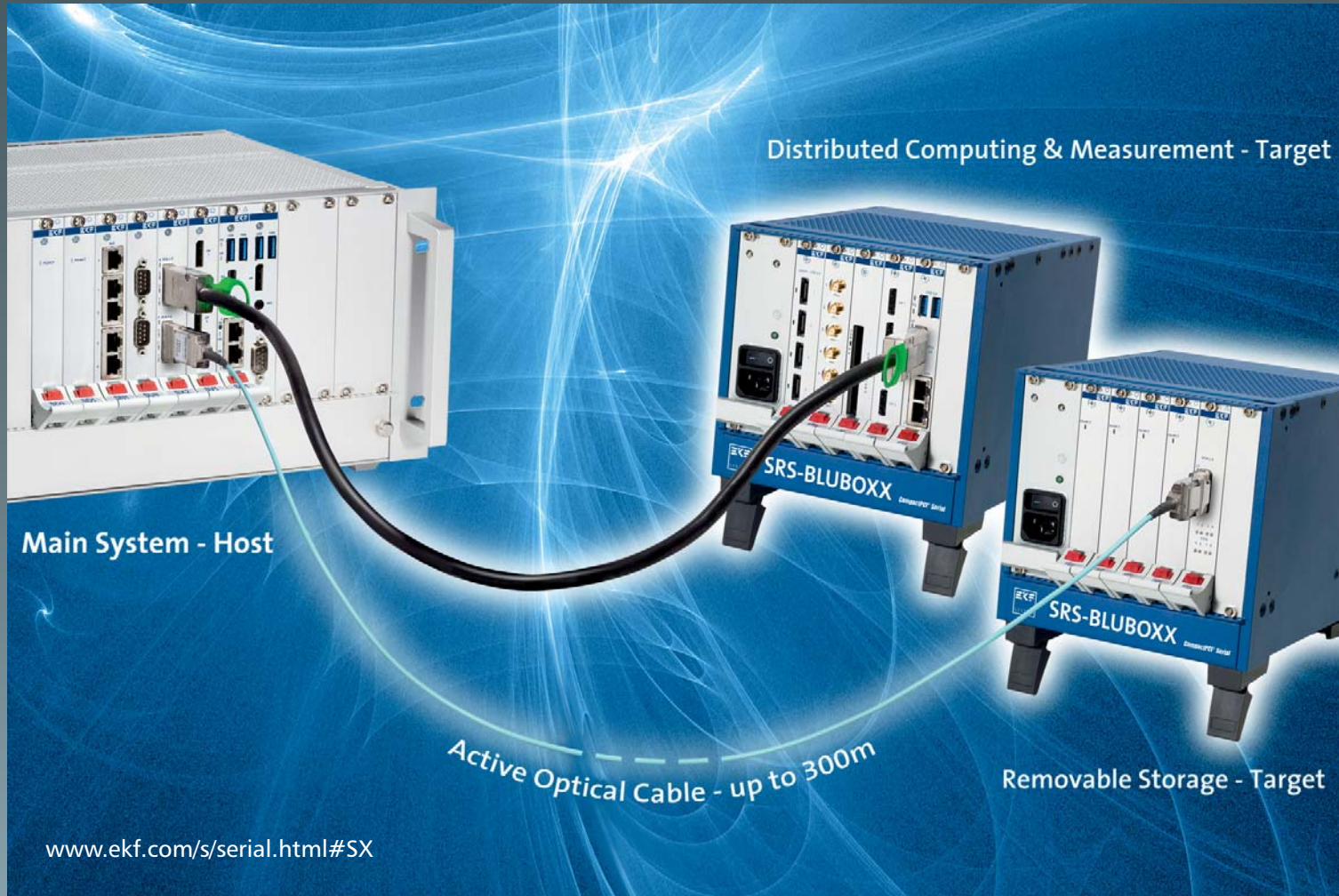
www.ekf.com/s/serial.html#SX

CompactPCI® Serial - the Smart Solution

CompactPCI® Serial System Expansion

PCI Express® External Cabling • Target System Adapter
System Slot Controller 8 x PCIe • F/P I/O

www.ekf.com/s/sx9/sx9.html

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SX9-HOWL   •   CompactPCI® Serial   •   © EKF   •   ekf.com

CompactPCI® Serial System Expansion

PCI Express® External Cabling • Target System Adapter
System Slot Controller 8 x SATA 6G RAID

www.ekf.com/s/sxs/sxs.html

PCIe x 4

L4

1 2 3 4

SATA

5 6 7 8

SXS

CompactPCI® Serial - the Smart Solution

SXS-STRING • CompactPCI® Serial • © EKF • ekf.com

CompactPCI® Goes Serial

For a transitional period, we will see heterogeneous (hybrid) systems with a CompactPCI® PlusIO CPU card in the middle, which allows employment of both - CompactPCI® Classic and CompactPCI® Serial peripheral boards - on a hybrid backplane.

CompactPCI® Migration Path

CompactPCI® Classic EKF Series C**	CompactPCI® PlusIO EKF Series P**	CompactPCI® Serial EKF Series S**
PICMG® 2.0	PICMG® 2.30	PICMG® CPCI-S.0
www.ekf.com/c/cpci.html	www.ekf.com/p/plus.html	www.ekf.com/s/serial.html
Parallel Backplane Total Bandwidth 133MByte/s (32-bit 33.3MHz PCI) J1=PCI J2=User I/O	J2 Serial 4xPCIe 2x1/10GE 4xSATA 4xUSB J2 → J1 Parallel PCI	Serial Backplane up to 40 x PCIe 8 x 1/10GE 8 x SATA 8 x USB2.0/3.0 Connectors P1-P6

J2 is a High Speed Signal UHM Connector
Usage for RIO or CPCI Serial Backplane

CompactPCI® PlusIO (PICMG® 2.30) • CompactPCI® Serial (PICMG® CPCI-S.0)

CompactPCI® Serial - the Smart Solution

CompactPCI® PlusIO CPU Card

A CompactPCI® PlusIO CPU card opens the migration path to CompactPCI® Serial
while maintaining compatibility to 32-bit CPCI classic systems
UHM high speed connector replaces standard J2 (same footprint)

CompactPCI® Serial - the Smart Solution

USB

USB

VGA

DP

Dual
GbE

© EKF
ekf.com

J-HSE

J-EXP

J-PCIE

J2
UHM

← →

CPCI-S.0
Peripheral
Boards

up to
4 x PCIe
4 x SATA
4 x USB
2 x GE
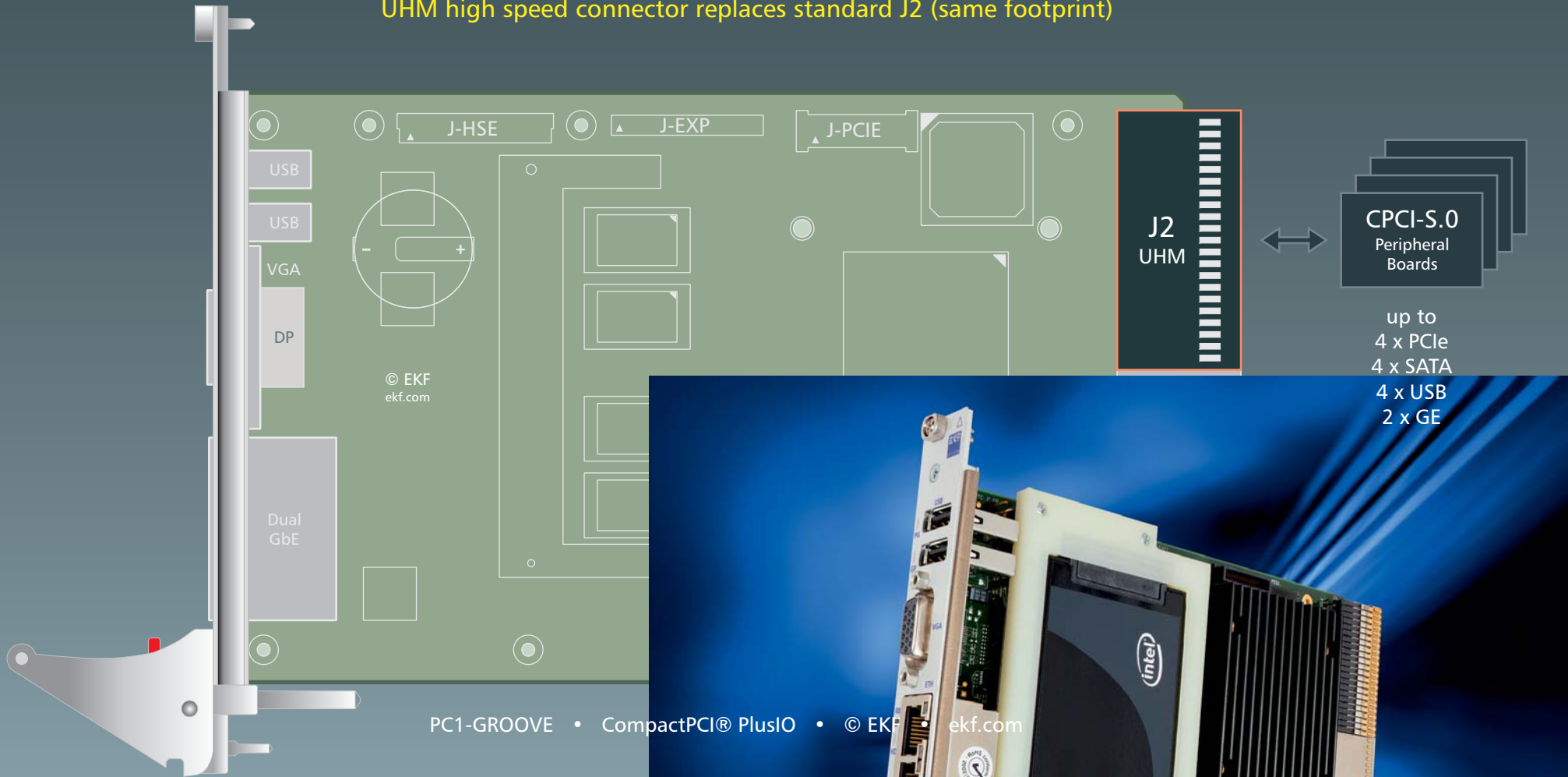
PC1-GROOVE • CompactPCI® PlusIO • © EKF • ekf.com

www.ekf.com/p/pc1/pc1.html

© EKF • www.ekf.com

CompactPCI® PlusIO CPU Card

The CompactPCI® PlusIO connector J2 is a high speed signal receptacle (same dimensions as classic J2)

www.ekf.com/p/pc2/pc2.html

J2
UHM
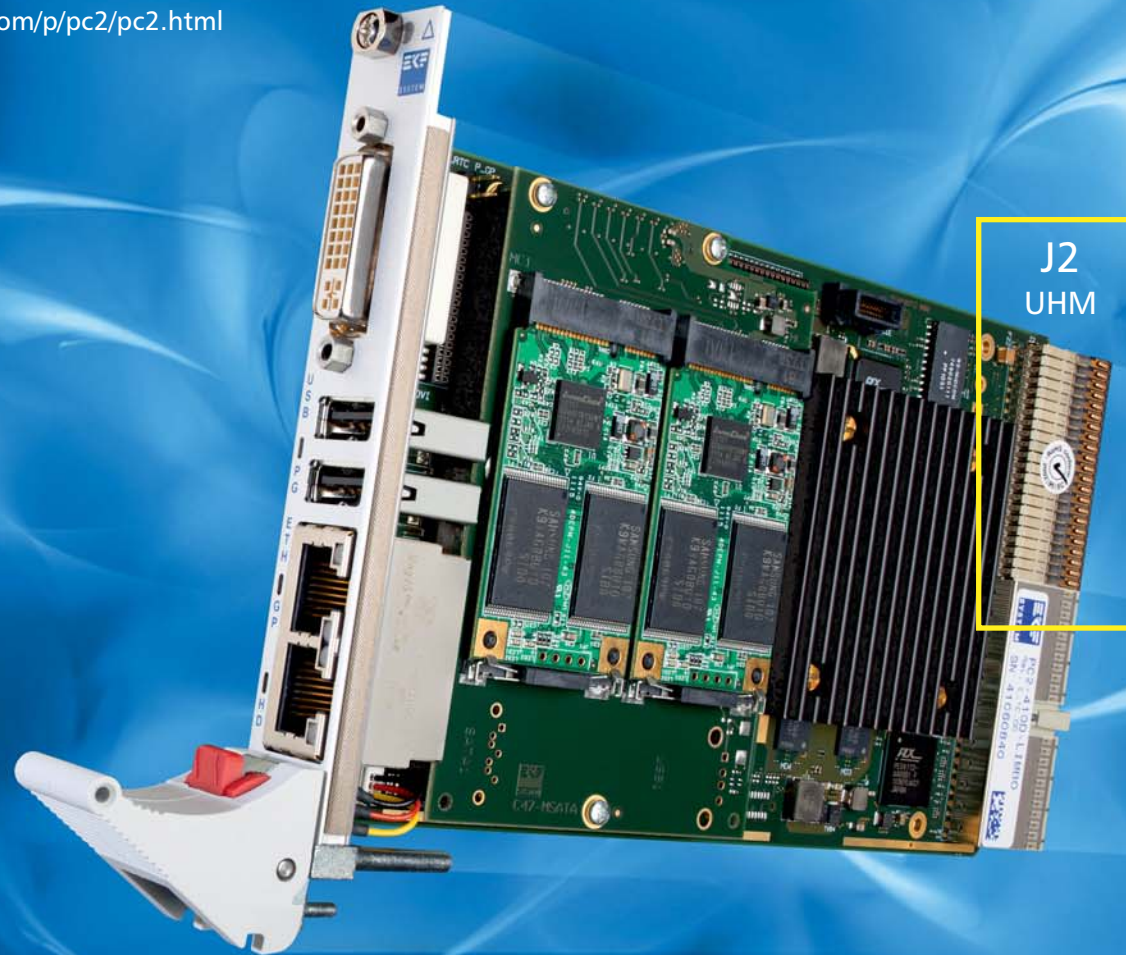
PC2-LIMBO • CompactPCI® PlusIO • © EKF • ekf.com

CompactPCI® PlusIO CPU Card

3rd Generation CompactPCI® PlusIO CPU card - PC3-ALLEGRO

www.ekf.com/p/pc3/pc3.html

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CompactPCI® PlusIO Rear I/O Transition Module

The connector J2 allows for high speed rear I/O according to PICMG® CPCI 2.30 PlusIO

CompactPCI® Serial - the Smart Solution

www.ekf.com/p/pr1/pr1.html

PR1-RIO • CompactPCI® PlusIO • © EKF • ekf.com

CompactPCI® PlusIO Rear I/O

Profit from standardized high speed rear I/O

www.ekf.com/p/pr1/pr1.html

CompactPCI® PlusIO CPU Side Cards

Mezzanine expansion modules available (8HP assembly)

www.ekf.com/p/pcl/pcl.html

PCL-CAPELLA • CompactPCI® PlusIO • © EKF • ekf.com

CompactPCI® PlusIO CPU Side Cards

Mezzanine expansion modules available (8HP assembly)

www.ekf.com/p/pcs/pcs.html

PCS-BALLET • CompactPCI® PlusIO • © EKF • ekf.com

CompactPCI® PlusIO CPU Side Cards

SCS-TRUMPET Side Card w. USB Rear I/O distributed across CompactPCI® Serial secondary backplane

www.ekf.com/s/scs/scs.html

CompactPCI® Serial - the Smart Solution
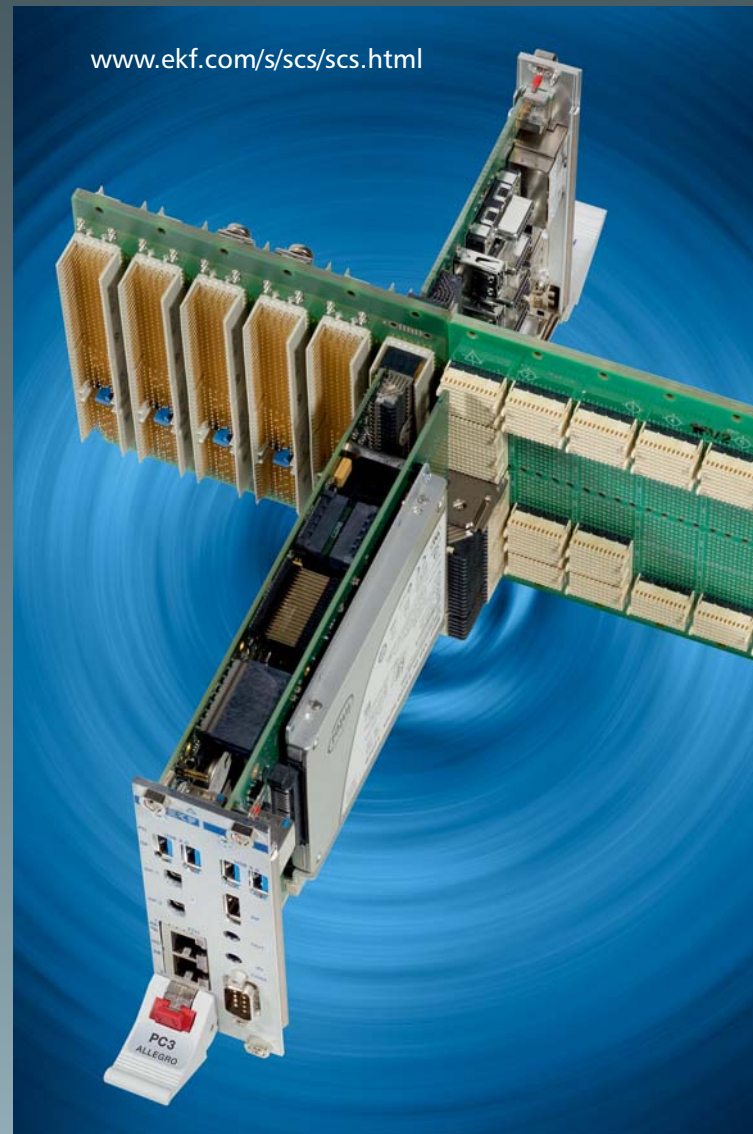
CompactPCI® PlusIO CPU Mezzanine Expansion

Side board I/O connectors for mezzanine expansion available on EKF CPU cards

CompactPCI® Serial - the Smart Solution

4 x SATA
(2 RAID)
4 x USB

LPC/SMB
2 x USB
HD Audio

PCI Express®
1 x 4
4 x 1

J-HSE

J-EXP

J-PCIE

USB

USB

VGA

DP

Dual
GbE

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ekf.com

SODIMM DDR3

Memory
Down

Intel®
Core™ i7
SV/LV/ULV

J2
UHM

CPCI-S.0
Peripheral
Boards

J1

J-SDVO2

SDVO (DVI)
DisplayPort

PC1-GROOVE
Mezzanine Connectors
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CompactPCI® PlusIO & CompactPCI® Serial Hybrid Backplane

CompactPCI® PlusIO & CompactPCI® Serial Hybrid Backplane

J6

PICMG® 2.30 PlusIO

EKF SYSTEM

Removable Power Supply

CompactPCI 32-Bit Peripheral Slots

CPCI-S.0 Peripheral Slots

1GbE
10GbE

PCIe
SATA
USB

J1

PC1-GROOVE

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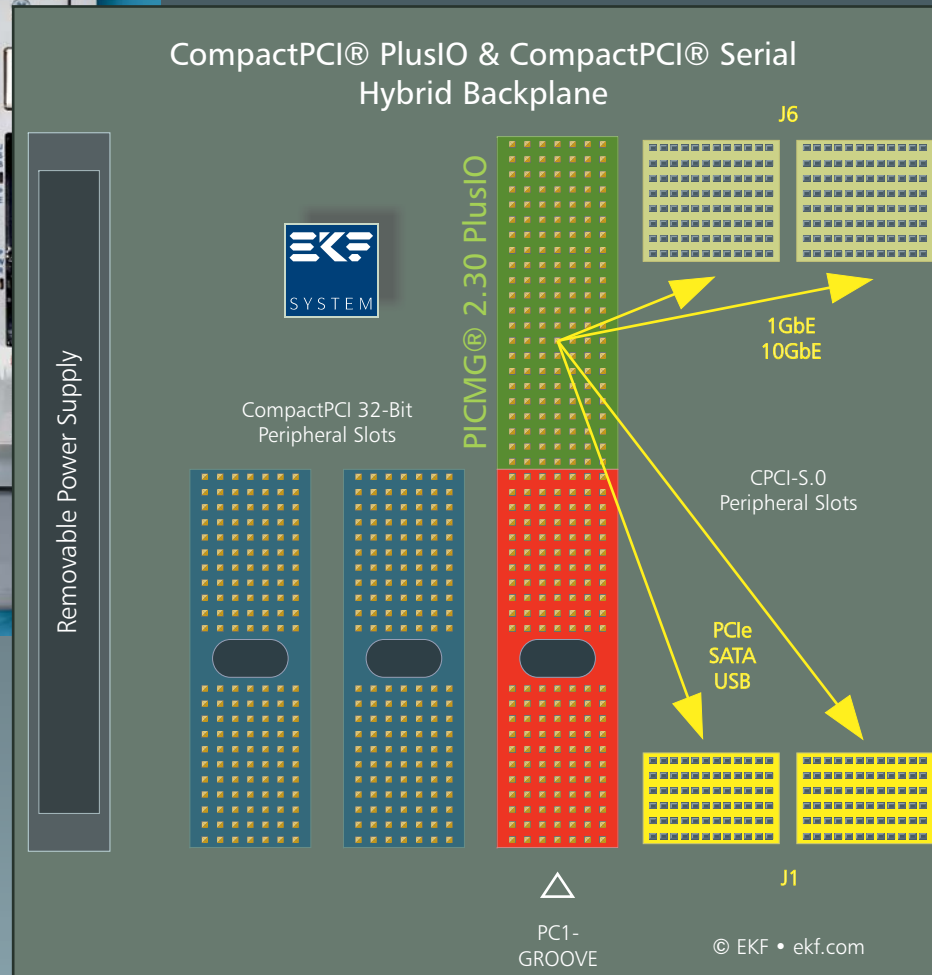
BlueLine Hybrid System

CompactPCI® Serial - the Smart Solution

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CompactPCI® Classic & CompactPCI® Serial Hybrid Systems

Hybrid systems comprise the best of both worlds

CompactPCI® Classic & CompactPCI® Serial Dual-Backplanes

Thanks to PlusIO, hybrid backplanes allow concurrent usage of CPCI Classic cards and CPCI Serial boards
Hybrid backplanes are available with an empty slot for 8HP PlusIO CPU board & mezzanine side card assembly
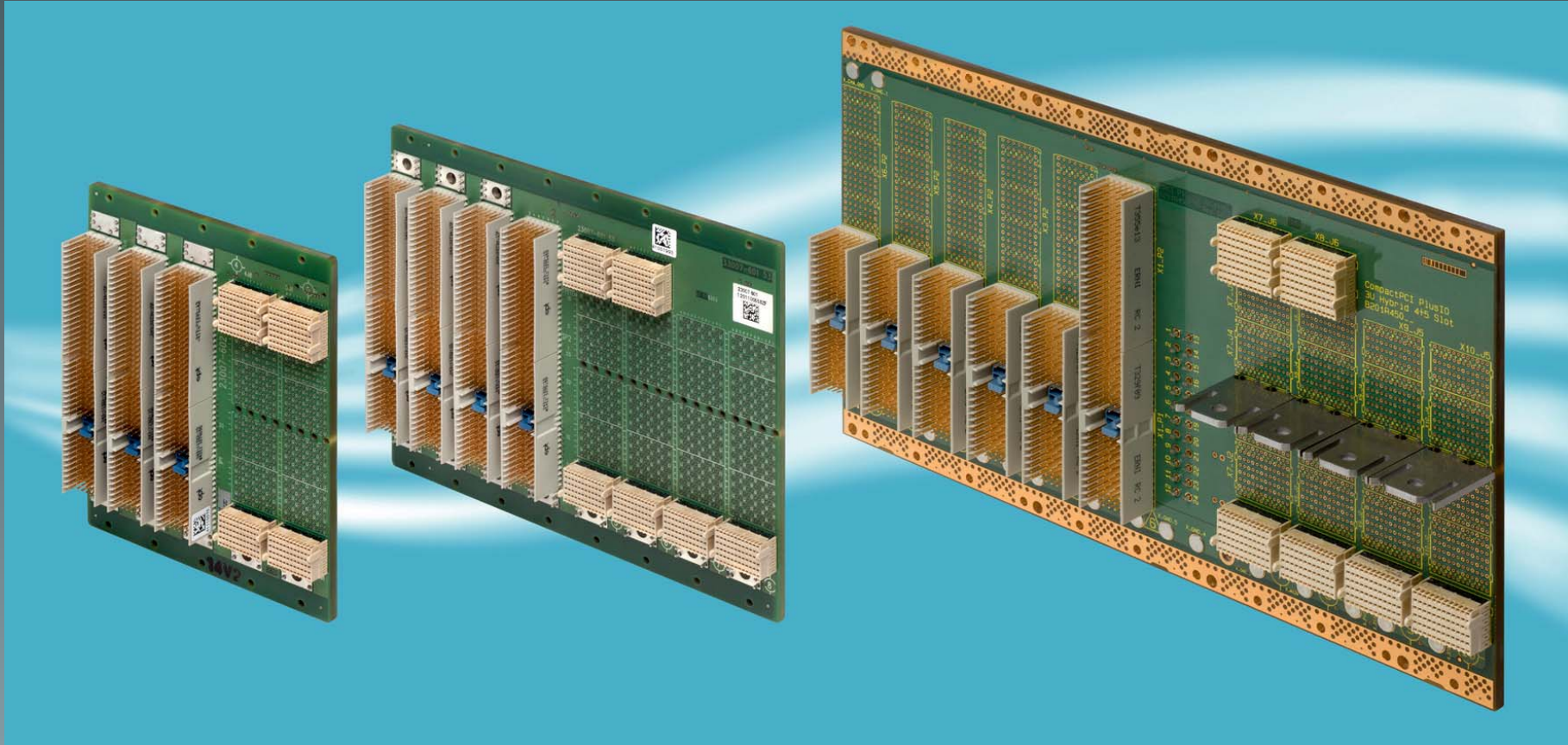
Sample Hybrid Backplanes CompactPCI® Classic & CompactPCI® Serial

The CompactPCI® PlusIO system slot is located in the middle

CompactPCI® Classic & CompactPCI® Serial Dual-Systems

Hybrid systems allow concurrent usage of CPCI Classic cards and CPCI Serial boards

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Fault
Power

SRP-4401-PLUSIO

The CompactPCI® PlusIO system slot is located in the middle

CompactPCI® Classic & CompactPCI® Serial Dual-Systems

Hybrid systems allow concurrent usage of CPCI Classic cards and CPCI Serial boards

www.ekf.com/s/srp/srp4401/srp4401.html

SRP-4401-PLUSIO

The CompactPCI® PlusIO system slot is located in the middle

CompactPCI® Serial - the Smart Solution

High Speed Design by Competence: EKF
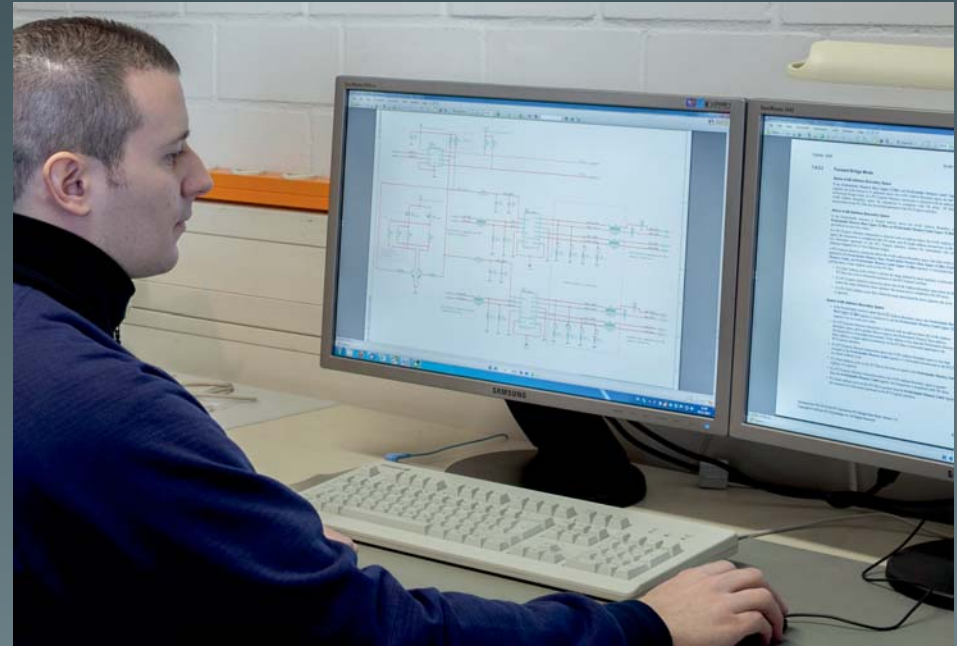
Built to Reliability and Ruggedness

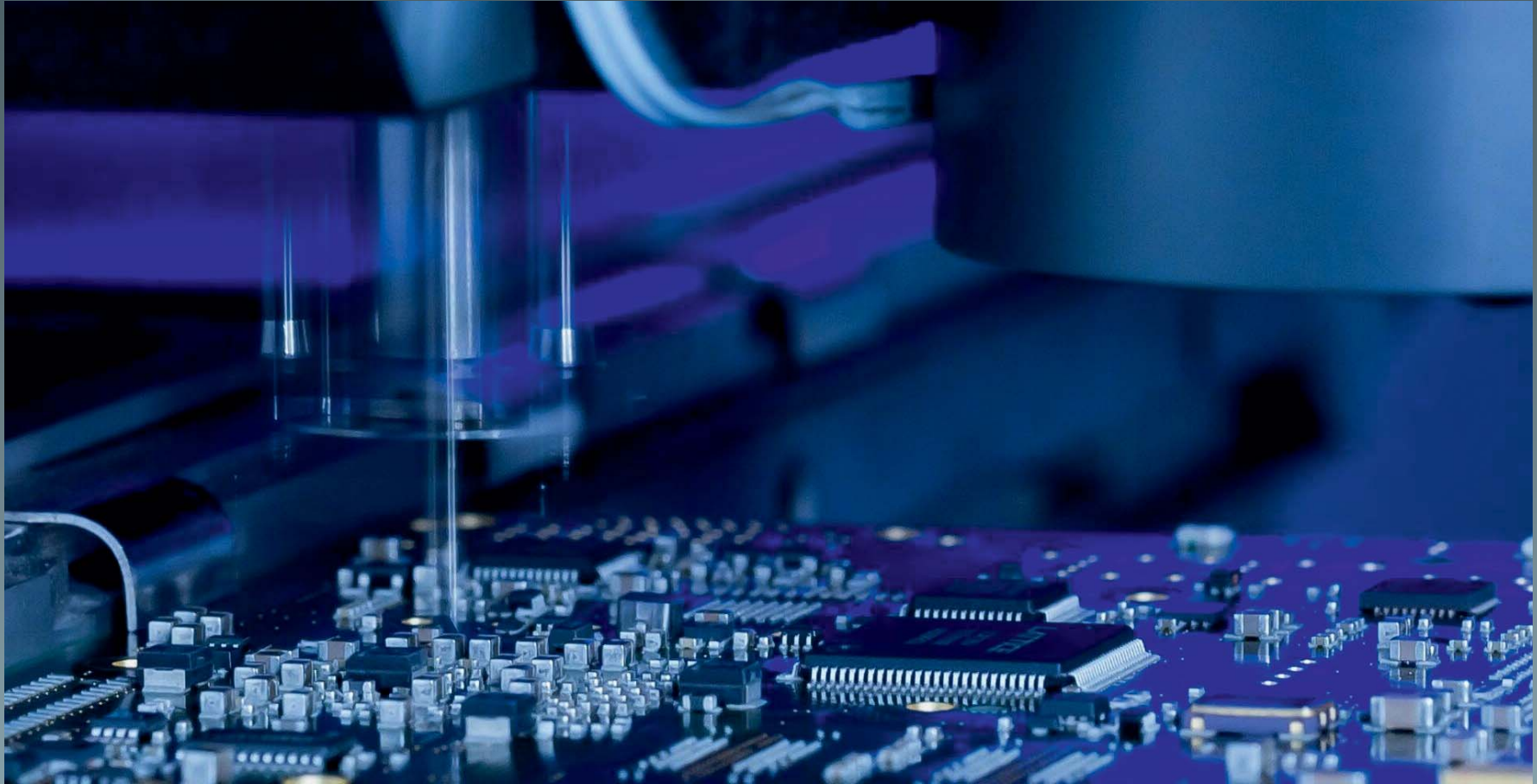## Why choose EKF as your CompactPCI® Serial systems supplier?
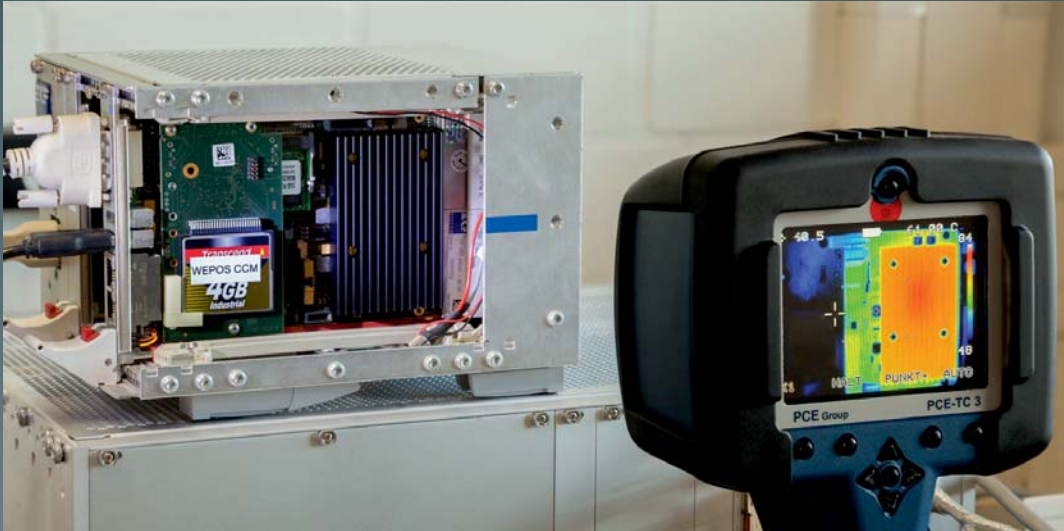
Thermal design & verification

AOI

X-Ray
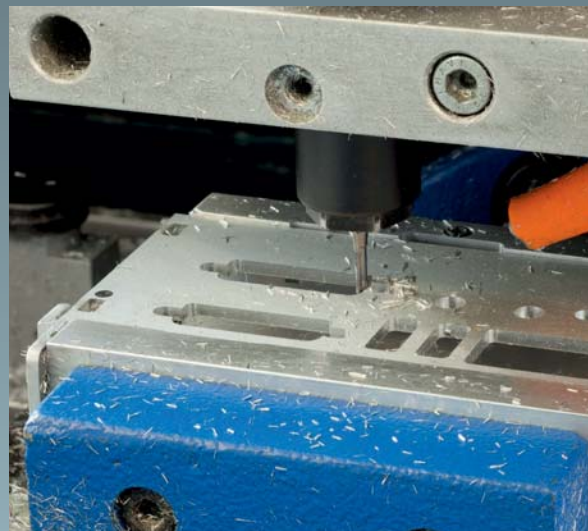
Custom specific manufacturing

ESD & regulatory verification

CompactPCI® Serial - the Smart Solution

Built to Reliability and Ruggedness

Proven SMD technology from 0201 to large BGA components

Made in Germany by EKF
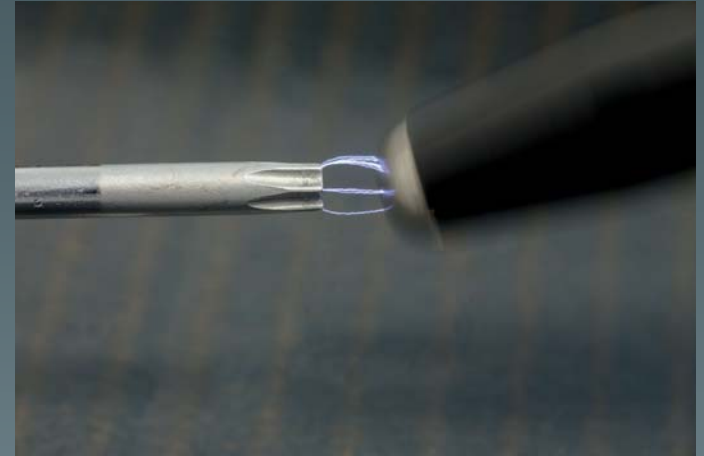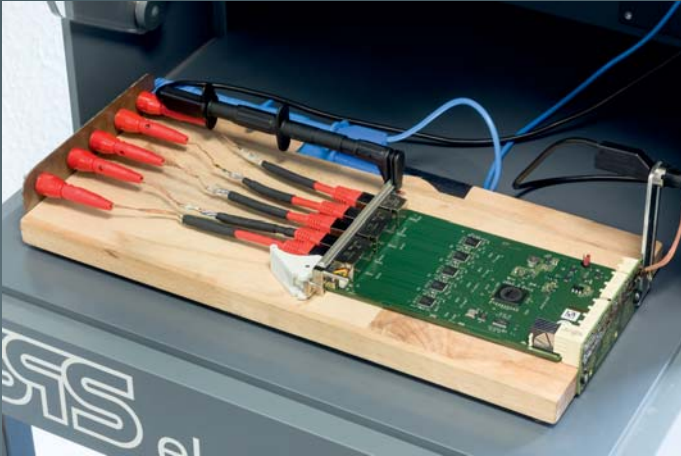
Impressions from our manufacture

Made in Germany by EKF

More impressions from our manufacture

Made in Germany by EKF

Even more impressions from our manufacture

High Performance Embedded Made in Germany

Custom Specific Systems

Either hybrid or native - CompactPCI® and CompactPCI® Serial built to custom racks

sales@ekf.com

CompactPCI® Serial - the Smart Solution

boards.   systems.   solutions.

EKF

SYSTEM