



Product Information

SRS-12xx-BLUBRICK®

CompactPCI® Serial • Rugged Wall-Mount Box

System Platform for Railway, Automotive, Industrial Applications



The SRS-12xx-BLUBRICK® is an embedded rugged system platform for a wide range of applications. The modular concept is based on CompactPCI® Serial, a well-established industrial standard for IEEE 100x160mm² size CPU- and I/O-boards.

The SRS-12xx-BLUBRICK® comprises a two- or three-slot backplane and a DC power supply suitable for either automotive, industrial or railway usage.

The SRS-12xx-BLUBRICK® is available either as basic enclosure, equipped w. backplane and PSU, or turn-key ready configured with a CompactPCI® Serial CPU card and up to two I/O or SSD mass storage boards.

The rugged box of extruded aluminium is provided with a mounting plate and available either for conductive cooling, or equipped with one or two fans for forced airflow.



SRS-1211-BLUBRICK®

Feature Summary

General

- ▶ Rugged enclosure for up to three CompactPCI® Serial boards (3 x 4HP)
- ▶ Dimensions profile 260 x 73 x 150.5 mm³
- ▶ Dimensions mounting flange 260 x 190.5 mm²
- ▶ 4 x Mounting holes 7 x 5.5 mm, 229mm x 170.5 mm
- ▶ Any mounting position allowed
- ▶ DC power supply options for railway, automotive or industrial application with wide input range

Card Slots

- ▶ PICMG® CompactPCI® Serial backplane based on PCI Express®
- ▶ Suitable for 3 x CompactPCI® Serial cards 3U/4HP, IEEE card guide rails
- ▶ 1 x CompactPCI® Serial system slot (CPU card)
- ▶ up to 2 x CompactPCI® Serial peripheral slots (I/O and mass storage cards)
- ▶ Option 1 x system slot (8HP CPU card) +1 x peripheral slot

Power Supply

- ▶ 100-240VAC, P=60W
- ▶ Option railway: 14-154VDC, P=50W, EN50155, EN45545-2 (for complete system)
- ▶ Option automotive/industrial: 10-36VDC, P=75W
- ▶ M12-A 4-pos. male connector for DC input (rear mount)
- ▶ Other input voltages AC/DC on request

Cooling

- ▶ Method depending on calculated power consumption CPU card + peripheral cards
- ▶ Passive conductive cooling for low power CPU cards (heatsink on top of the enclosure)
- ▶ Option forced airflow with two fans
- ▶ Operating temperature (conductive cooling) 0°C to +55°C
- ▶ Operating temperature (forced airflow) tbd
- ▶ Temperature range depends on particular boards in use and BIOS power settings

Feature Summary

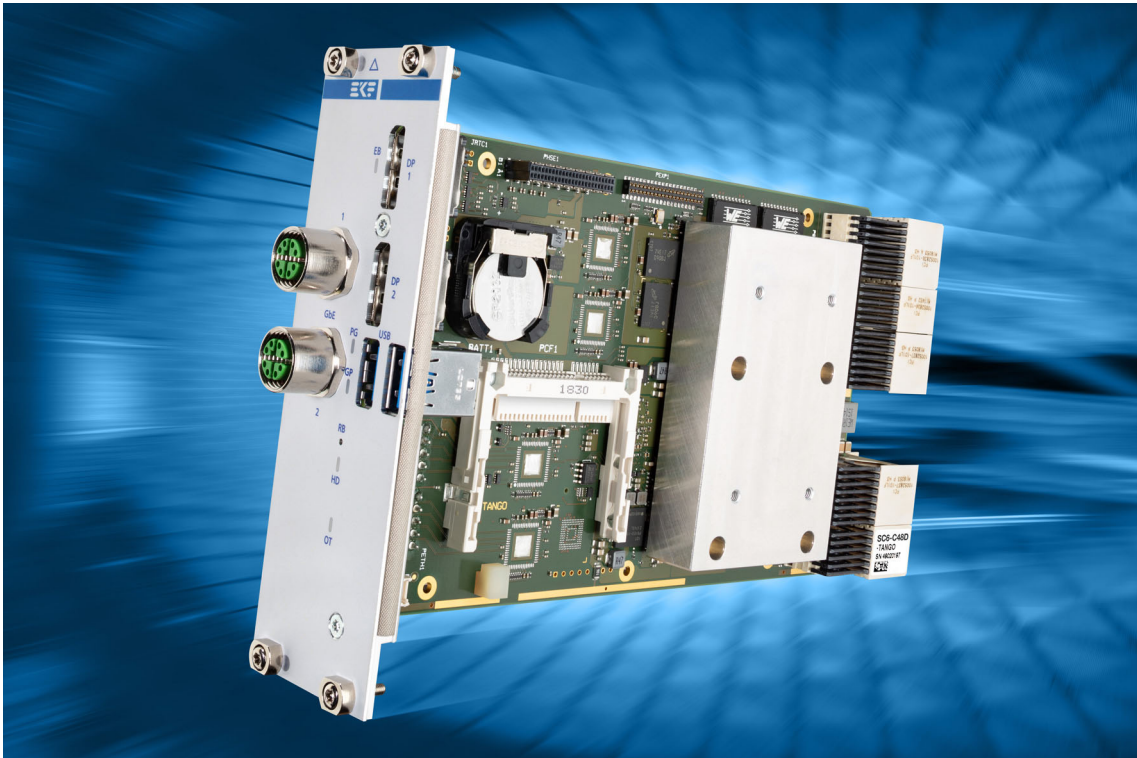
Applications

- ▶ Industrial computing (IIoT), edge/fog
- ▶ Router, gateway, networking, data acquisition and acceleration, kiosk systems
- ▶ Automotive e.g. experimental autonomous cars, infotainment, camera frame grabber
- ▶ Railway applications (EN50155), e.g. alarm server

Regulatory

- ▶ Designed & manufactured in Germany
- ▶ ISO 9001 certified quality management
- ▶ Long term availability
- ▶ Rugged solution
- ▶ RoHS compliant

items are subject to changes w/o further notice



SC6-TANGO w. Heatsink for BLUBRICK Conductive Cooling

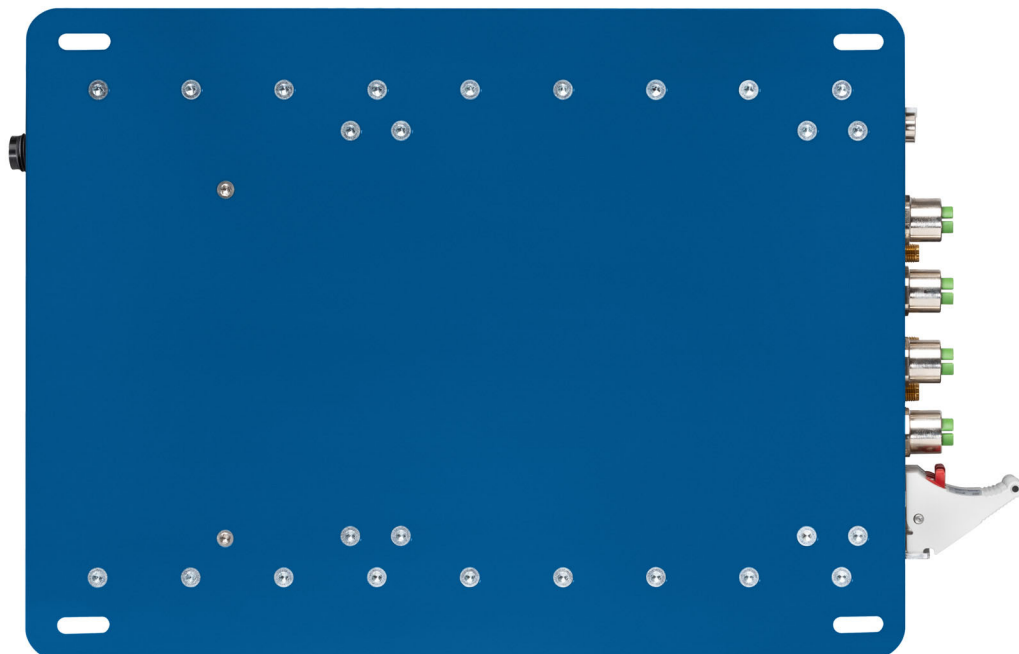
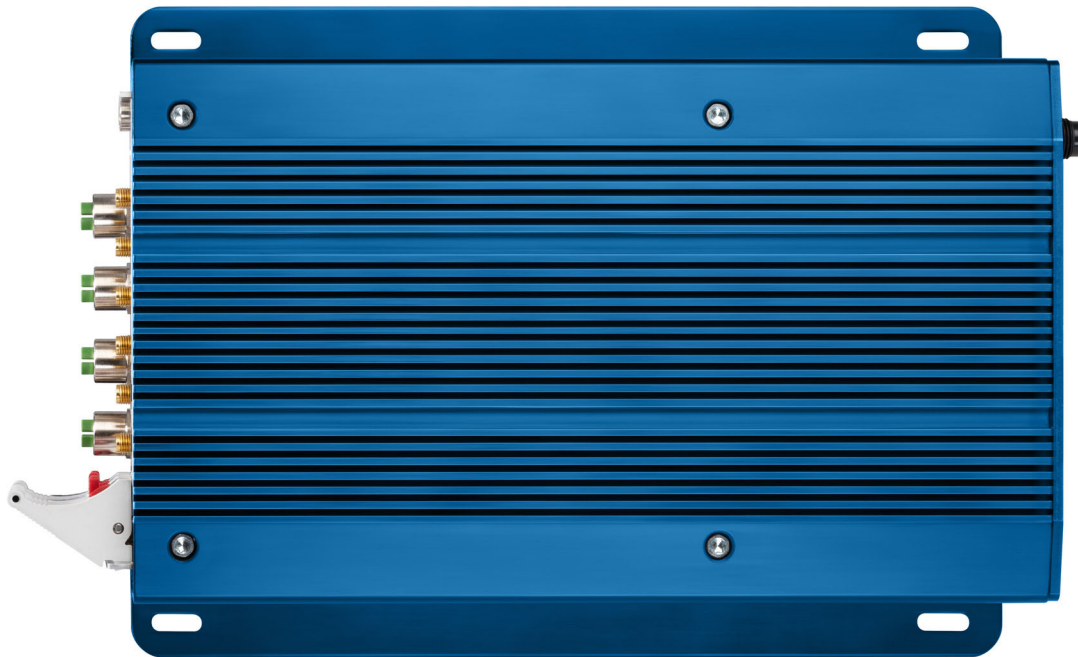


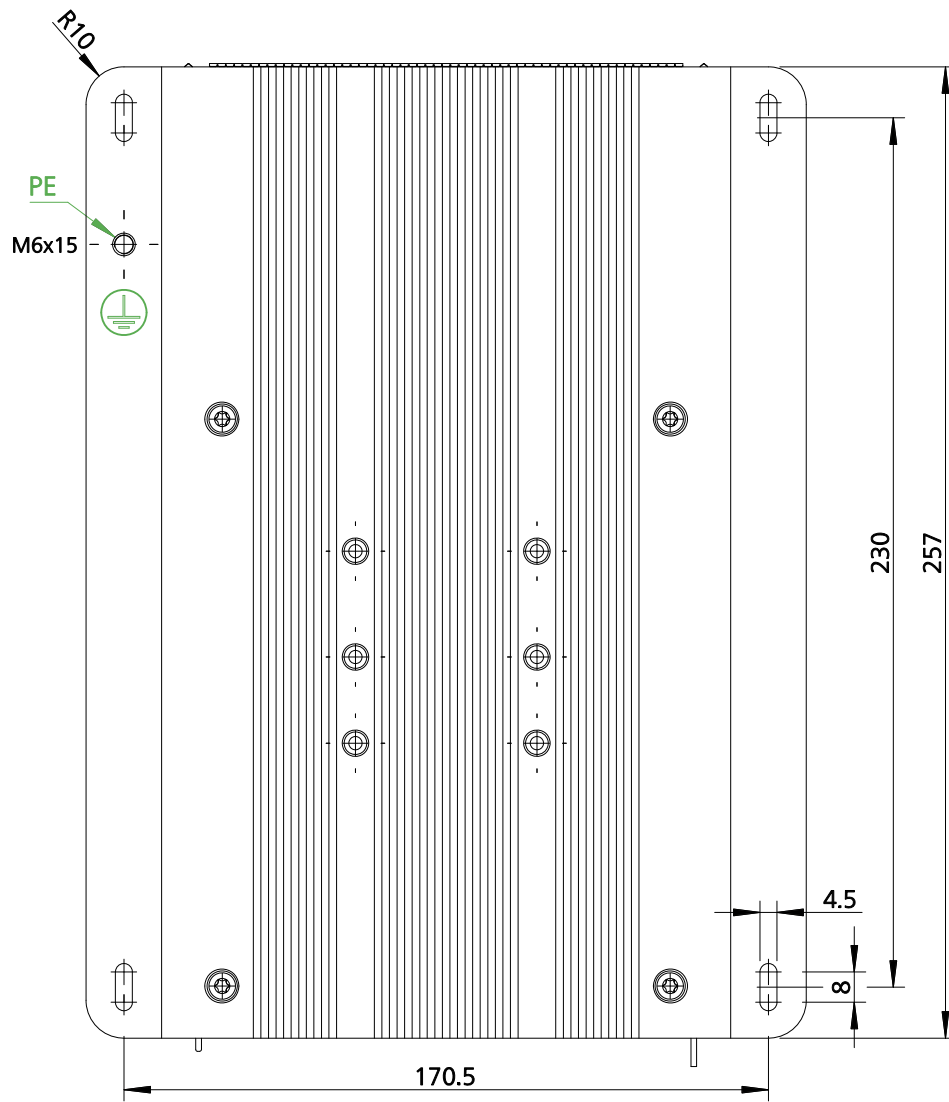




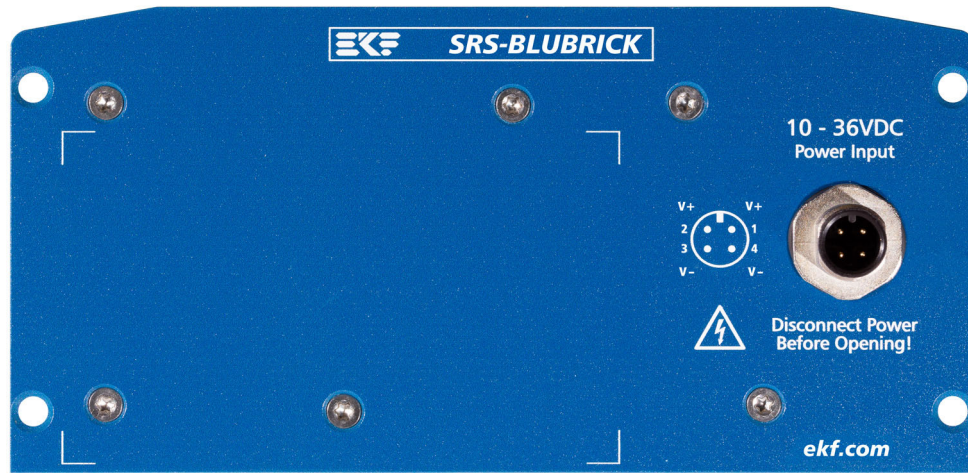
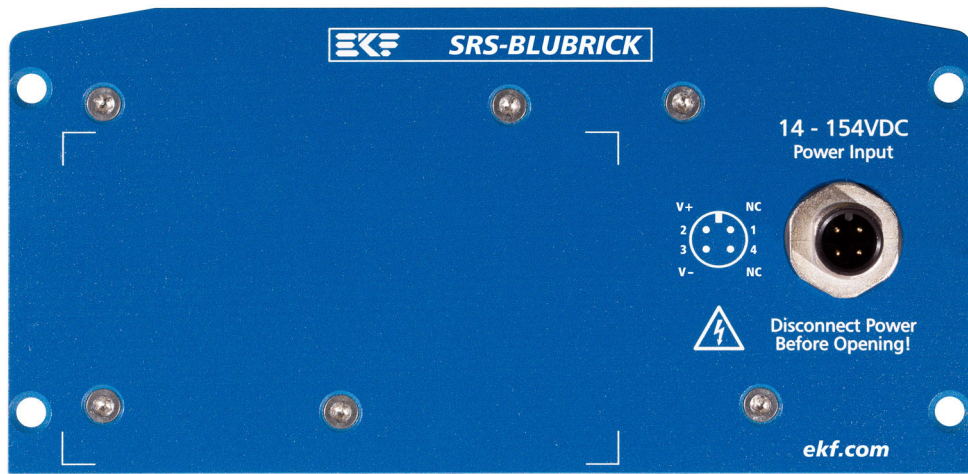
Sample System Configuration





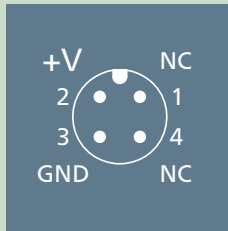


Please note: Connect PE/FE via M6 bolt on the mounting plate



M12 Power Connector Pin Assignment

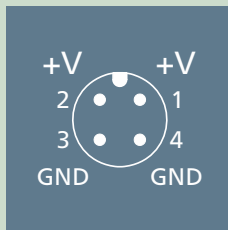
Power Supply 14 - 154VDC • M12-A 4-Position Male



Power
Input
DC
14-154V

1	NC
2	+V
3	-V (GND)
4	NC

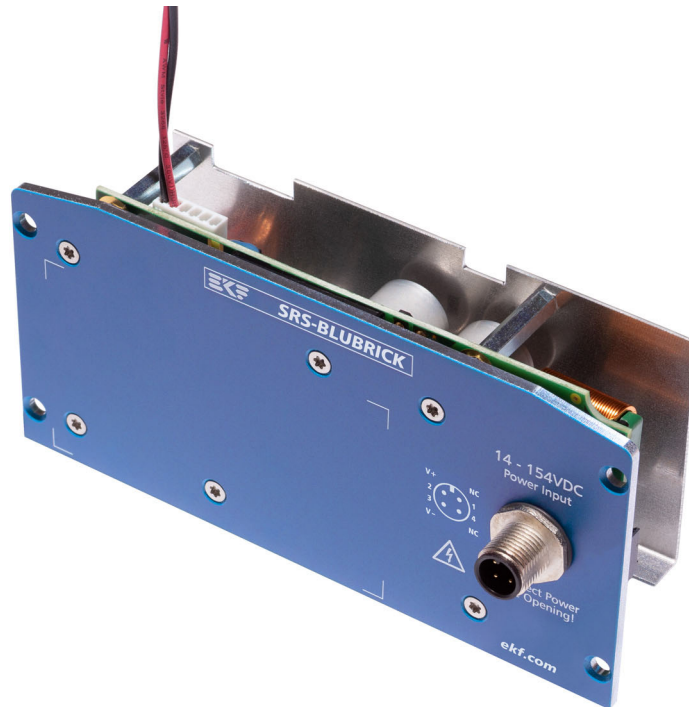
Power Supply 10 - 36VDC • M12-A 4-Position Male



Power
Input
DC
10-36V

1	+V
2	+V
3	-V (GND)
4	-V (GND)

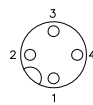
Please note: Connect PE/FE via M6 bolt on the mounting plate (see page before)



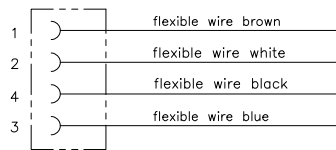
Mating Pigtail Cable Assemblies 1.5m w. Female Straight Plug	
EKF	271.10.504.22.015
Phoenix Contact	1668108
Tyco	2273029-1

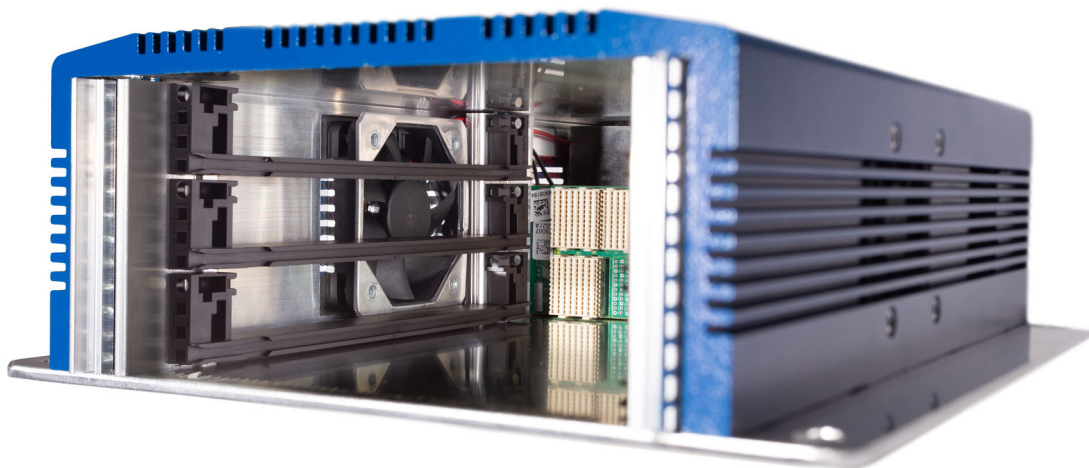
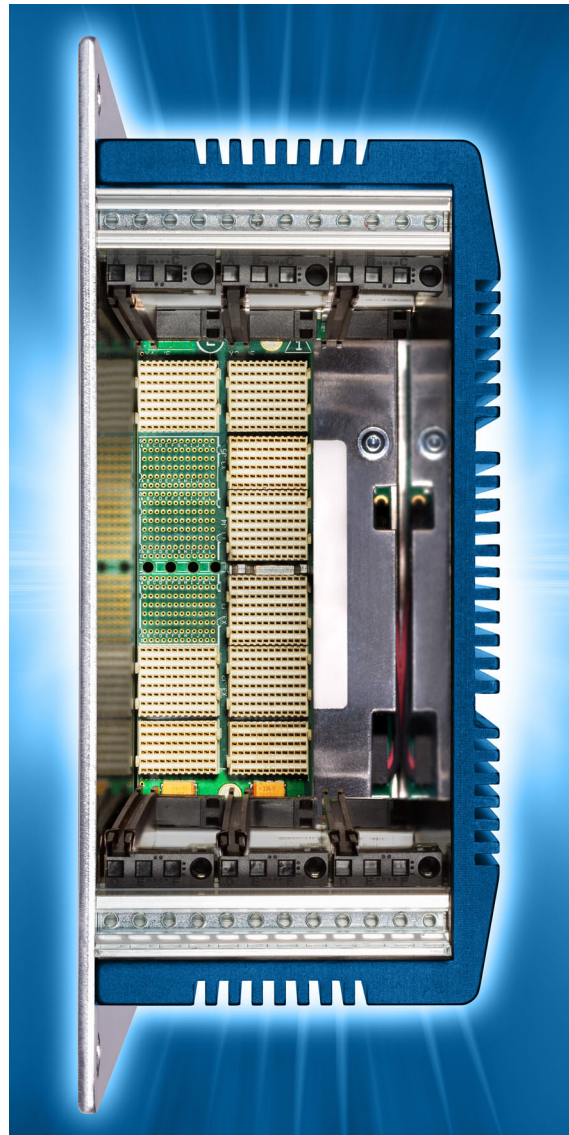


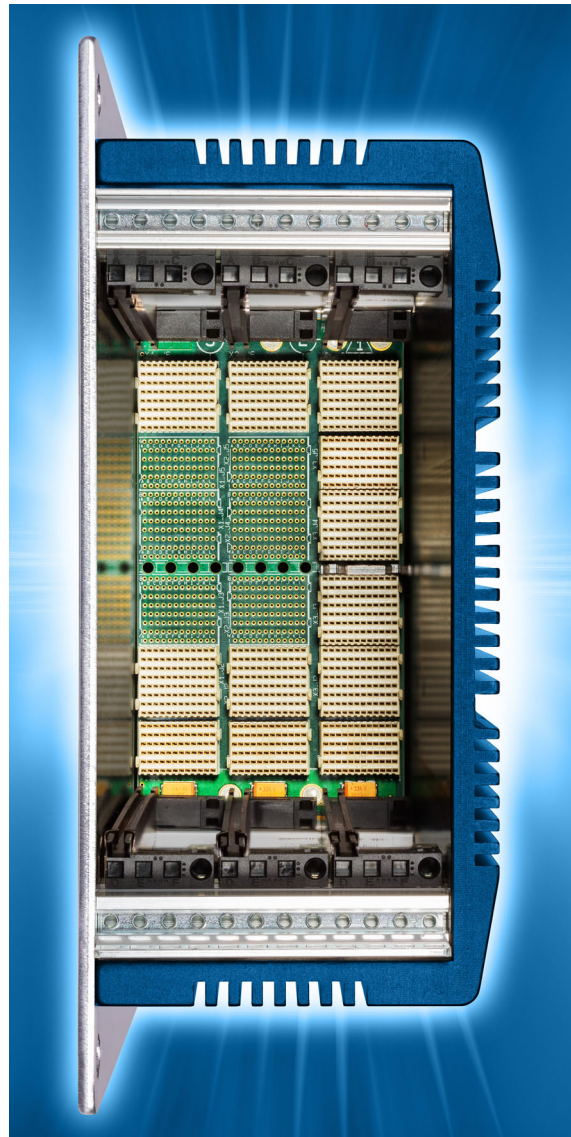
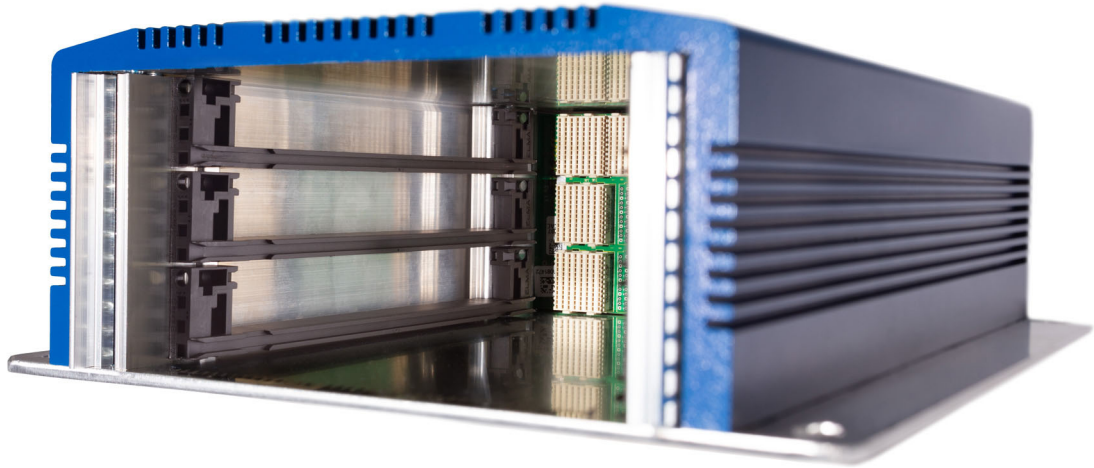
Contact Layout
Female



Schematic diagram









Sample System Configuration

BLUBRICK 12xx SKU

1201

- ▶ Rugged wall mount box, SRS-BLUBRICK series, housing with two fans, six vents
- ▶ 2-Slot CompactPCI® Serial backplane
- ▶ Power supply Vin 10-36VDC, P=75W, M12-A 4-position male connector
- ▶ Suitable e.g. for SC5-FESTIVAL CPU card

1202

- ▶ Rugged wall mount box, SRS-BLUBRICK series, housing with two fans, six vents
- ▶ 2-Slot CompactPCI® Serial backplane
- ▶ Coated power supply Vin 14-154VDC, P=50W, hold-up time 10ms, M12-A 4-position male connector
- ▶ Suitable e.g. for SC5-FESTIVAL CPU card

1203

- ▶ Rugged wall mount box, SRS-BLUBRICK series, housing with two fans, six vents
- ▶ 2-Slot CompactPCI® Serial backplane
- ▶ Power supply Vin 100-240VAC, P=60W, IEC connector
- ▶ Suitable e.g. for SC5-FESTIVAL CPU card

1211

- ▶ Rugged wall mount box, SRS-BLUBRICK series, closed housing w/o fans, w/o vents
- ▶ 3-Slot CompactPCI® Serial backplane
- ▶ Power supply Vin 10-36VDC, P=75W, M12-A 4-position male connector
- ▶ Suitable e.g. for SC6-TANGO CPU card

1212

- ▶ Rugged wall mount box, SRS-BLUBRICK series, closed housing w/o fans, w/o vents
- ▶ 3-Slot CompactPCI® Serial backplane
- ▶ Coated power supply Vin 14-154VDC, P=50W, hold-up time 10ms, M12-A 4-position male connector
- ▶ Suitable e.g. for SC6-TANGO CPU card

BLUBRICK 12xx SKU

1213

- ▶ Rugged wall mount box, SRS-BLUBRICK series, closed housing w/o fans, w/o vents
- ▶ 3-Slot CompactPCI® Serial backplane
- ▶ Power supply Vin 100-240VAC, P=60W, IEC connector
- ▶ Suitable e.g. for SC6-TANGO CPU card

1221

- ▶ Rugged wall mount box, SRS-BLUBRICK series, housing with two fans, six vents
- ▶ 3-Slot CompactPCI® Serial backplane
- ▶ Power supply Vin 10-36VDC, P=75W, M12-A 4-position male connector
- ▶ Custom applications

1222

- ▶ Rugged wall mount box, SRS-BLUBRICK series, housing with two fans, six vents
- ▶ 3-Slot CompactPCI® Serial backplane
- ▶ Coated power supply Vin 14-154VDC, P=50W, hold-up time 10ms, M12-A 4-position male connector
- ▶ Custom applications

1223

- ▶ Rugged wall mount box, SRS-BLUBRICK series, housing with two fans, six vents
- ▶ 3-Slot CompactPCI® Serial backplane
- ▶ Power supply Vin 100-240VAC, P=60W, IEC connector
- ▶ Custom applications

1231

- ▶ Rugged wall mount box, SRS-BLUBRICK series, housing with six vents, w/o fans
- ▶ 3-Slot CompactPCI® Serial backplane
- ▶ Power supply Vin 10-36VDC, P=75W, M12-A 4-position male connector
- ▶ Suitable e.g. for SC6-TANGO CPU card

BLUBRICK 12xx SKU

1232

- ▶ Rugged wall mount box, SRS-BLUBRICK series, housing with six vents, w/o fans
- ▶ 3-Slot CompactPCI® Serial backplane
- ▶ Coated power supply Vin 14-154VDC, P=50W, hold-up time 10ms, M12-A 4-position male connector
- ▶ Suitable e.g. for SC6-TANGO CPU card

1233

- ▶ Rugged wall mount box, SRS-BLUBRICK series, housing with six vents, w/o fans
- ▶ 3-Slot CompactPCI® Serial backplane
- ▶ Power supply Vin 100-240VAC, P=60W, IEC connector
- ▶ Suitable e.g. for SC6-TANGO CPU card

SRS-BLUBRICK-12xx Comparison Table

Ordering #	PSU			BP Slots	Fans	Vents
SRS-1201	10-36VDC	75W	M12-A 4-pin	2	2	6
SRS-1202	14-154VDC	50W	M12-A 4-pin	2	2	6
SRS-1203	100-240VAC	60W	IEC	2	2	6
SRS-1211	10-36VDC	75W	M12-A 4-pin	3	0	0
SRS-1212	14-154VDC	50W	M12-A 4-pin	3	0	0
SRS-1213	100-240VAC	60W	IEC	3	0	0
SRS-1221	10-36VDC	75W	M12-A 4-pin	3	2	6
SRS-1222	14-154VDC	50W	M12-A 4-pin	3	2	6
SRS-1223	100-240VAC	60W	IEC	3	2	6
SRS-1231	10-36VDC	75W	M12-A 4-pin	3	0	6
SRS-1232	14-154VDC	50W	M12-A 4-pin	3	0	6
SRS-1233	100-240VAC	60W	IEC	3	0	6

Solectrix proFRAME Grabber Application Examples

EKF offers BLUBRICK® system support for Solectrix frame grabber for automotive camera applications. Please contact sales@ekf.de for details, or sales@solectrix.de.



<https://solectrix.de/produkte/video-grabber-und-playback-systeme/sx-proframe-base-boards/>





Industrial Computers Made in Germany
boards. systems. solutions.



Beyond All Limits:
EKF High Performance Embedded

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