



Product Information

SRS-8422-SERIAL

Hybrid 19-Inch Rack

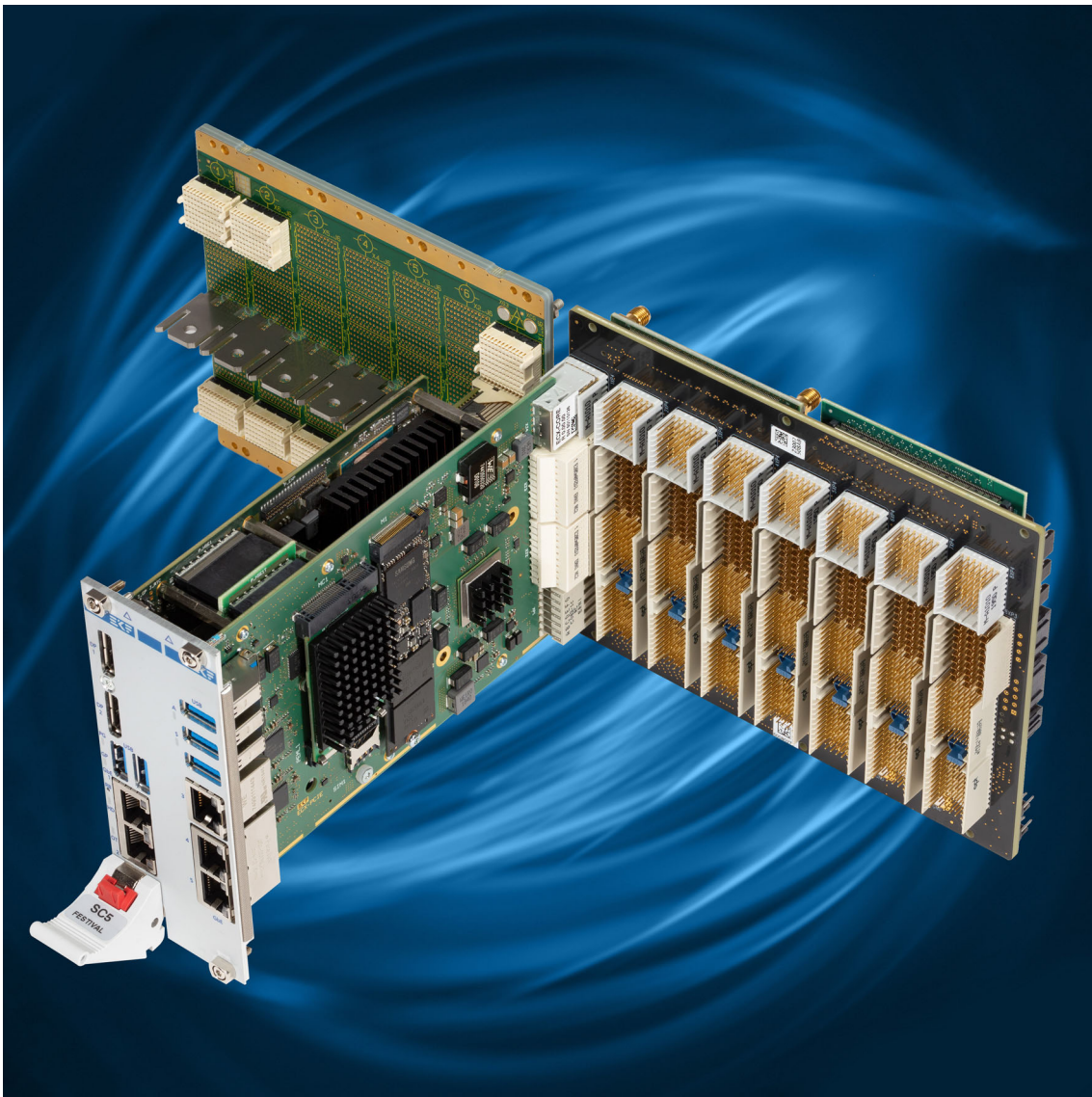
CompactPCI[®] Serial & CompactPCI[®] Express (PXIe[™])

System Rack for Industrial Applications



The SRS-8442-SERIAL rack is equipped with two backplanes, left for CompactPCI® Serial cards, right for CompactPCI® Express boards (aka PXI Express™). In order to combine both worlds, a CompactPCI® Serial CPU with a mezzanine bus coupler bridge fits into both system slots, as a 10HP assembly.

The rack is provided with two removable power supplies, one for each backplane. Three 120mm fans mounted in a drawer below the card slots care for optimum cooling. All components were chosen for high reliability, as required e.g. for industrial usage and rugged applications.



Feature Summary

General

- ▶ 19-inch rack with CompactPCI® Serial and CompactPCI® Express (PXle™) backplanes
- ▶ Two pluggable AC power supplies 550W in total, wide input range
- ▶ Dimensions 482.6mm x 177mm x 282mm (W x H x D), 4U/84HP
- ▶ Bottom mount fan unit

Card Slots

- ▶ PICMG® CompactPCI® Serial backplane
- ▶ Suitable for CompactPCI® Serial cards 3U/4HP, IEEE card guide rails
- ▶ CompactPCI® Serial system slot (CPU card) right aligned
- ▶ Recommended CPU card SC5-FESTIVAL or SC9-TOCCATA
- ▶ 6 x CompactPCI® Serial peripheral slots (I/O and mass storage cards)

- ▶ PICMG® CompactPCI® Express (PXI Express™) backplane
- ▶ CompactPCI® Express system slot (bus coupler board) left aligned
- ▶ Required bus coupler ECX-PCIE (mezzanine card on top of CPU board)
- ▶ 7 x CompactPCI® Express (PXle™) hybrid peripheral slots

AC Power Supplies

- ▶ Two removable supplies, for CompactPCI® Serial backplane and for CompactPCI® Express backplane
- ▶ Power rating 300W/250W
- ▶ Input range 90-264VAC, 50-60Hz
- ▶ Line/load regulation <2%, ripple/noise <1%pp
- ▶ Efficiency >90%
- ▶ Active PFC 0.99
- ▶ Isolation voltage >4kVDC
- ▶ Short circuit & overload protection, thermal protection
- ▶ I²C monitoring
- ▶ EMI filtering EN55022 Class B, FCC
- ▶ Operating temperature -40°C to +70°C full rating
- ▶ Safety approvals: UL/CUL 60950-1:2005 (2nd Edition) Am 1:2009, EN 60950-1:2006, EN 60950-1:2006/A11:2009, EN 60950-1:2006/A1:2010, EN 60950-1:2006/A12:2011
- ▶ PwrBlade connector (Amphenol/FCI) suitable for power backplane
- ▶ AC mains rear power inlet (IEC plug)

Feature Summary

Cooling

- ▶ Three bottom mount fans (1U drawer), long life, low noise, ball bearings, for forced vertical airflow
- ▶ 120mm fans ebmpapst 12V 3.2W, 140m³/h, L10 70000h @40°C, 2400/min, VDE/CSA/UL/CE
- ▶ Reasonable clearance required below the rack for free airflow

Applications

- ▶ High reliable industrial computing
- ▶ Test equipment
- ▶ Instrumentation
- ▶ Automotive e.g. experimental cars
- ▶ Custom specific modifications on request

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

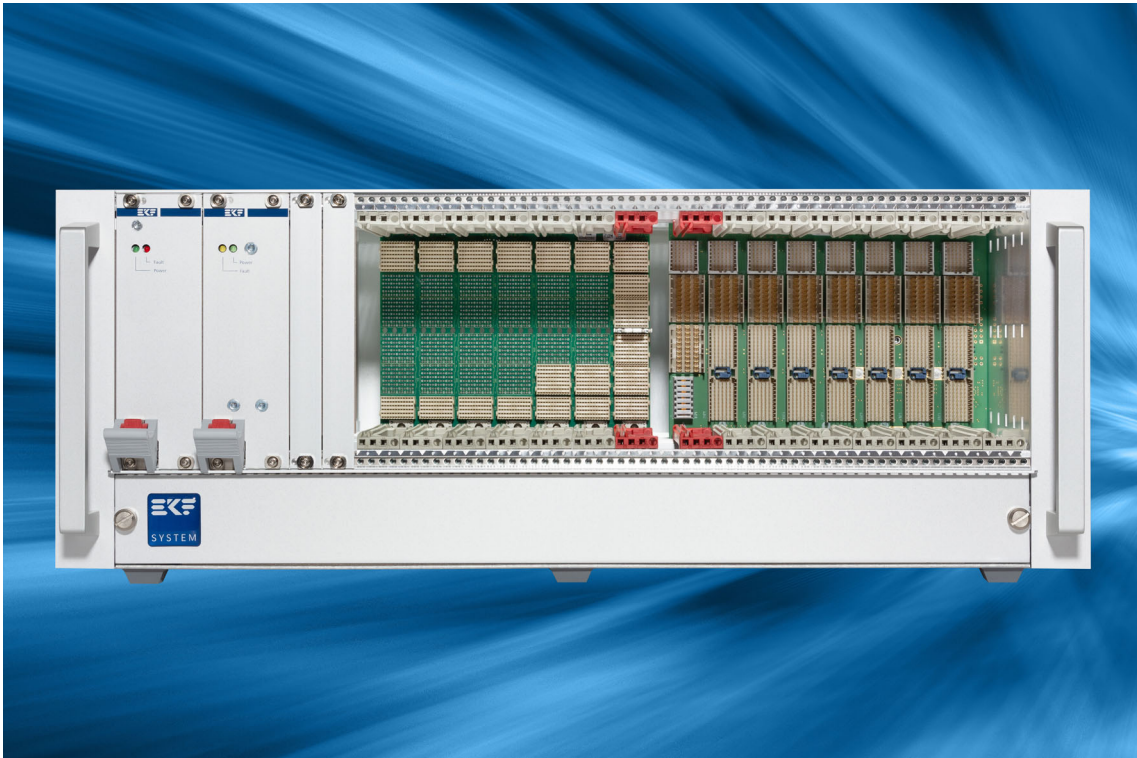
Related Documents

CPU Cards

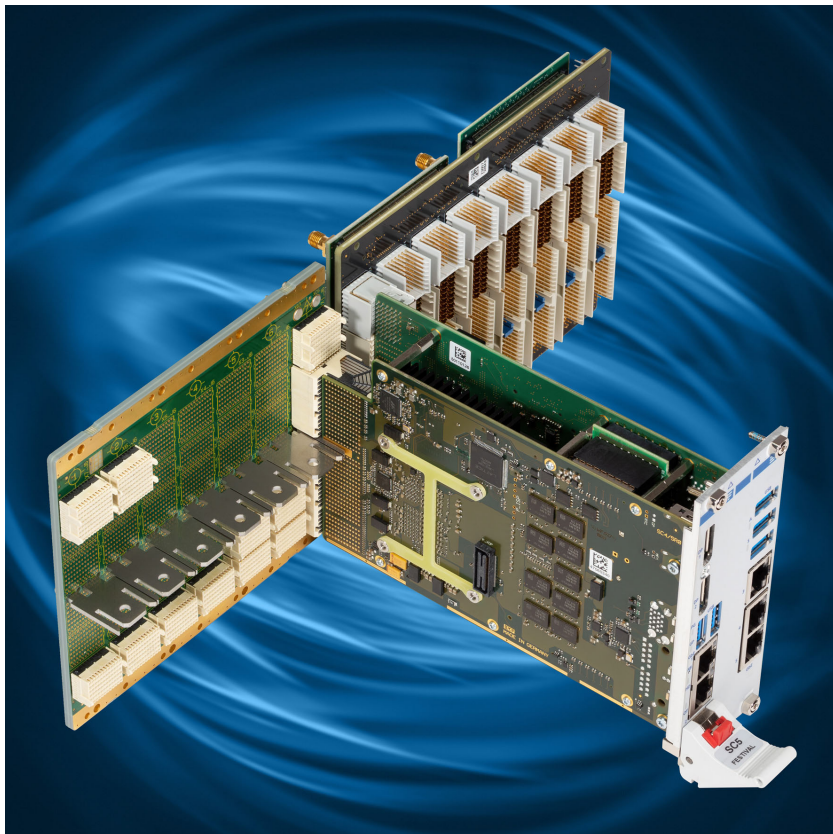
SC5-FESTIVAL	https://www.ekf.com/s/sc5/sc5.html
SC9-TOCCATA	https://www.ekf.com/s/sc9/sc9.html

Backplane Coupler

ECX-PCIE	https://www.ekf.com/e/ecx/ecx.html
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Document No. 10076 • 31 May 2022

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