



Product Information

SRS-8401-SERIAL (AC)

SRS-8410-SERIAL (DC)

CompactPCI® Serial • 19-Inch Rack

System Racks for Industrial Applications



The SRS-8401-SERIAL racks are equipped with a 9-slot CompactPCI® Serial backplane, and a removable 300W power supply for either AC or DC power input. Three 120mm fans mounted below the card slots care for optimum cooling. All components were chosen for high reliability, as required e.g. for industrial usage.

The CompactPCI® Serial system slot is right aligned, with an additional guide rail for an optional mezzanine side card on top of the CPU board. The free space behind the 28HP blind plate can be used by the customer for own installations (custom specific front panel design offered).



SRS-8410-SERIAL (DC Power Supply)

Feature Summary

General

- ▶ 19-inch rack with CompactPCI® Serial backplane
- ▶ Pluggable power supply & power backplane
- ▶ Dimensions 482.6mm x 177mm x 282mm (W x H x D), 4U/84HP
- ▶ AC or DC industrial grade power supply with wide input range
- ▶ Bottom mount fan unit

Card Slots

- ▶ PICMG® CompactPCI® Serial backplane based on PCI Express®
- ▶ Suitable for 9 x CompactPCI® Serial cards 3U/4HP, IEEE card guide rails
- ▶ 1 x CompactPCI® Serial system slot (CPU card) right aligned
- ▶ Spare guide rail for mezzanine side card (8HP CPU board assembly)
- ▶ 8 x CompactPCI® Serial peripheral slots (I/O and mass storage cards)

AC Power Supply (SRS-8401)

- ▶ Total power 300W
- ▶ Input range 90-264VAC, 50-60Hz, rated input current 1.3A@230V, OVP
- ▶ Output 12VDC 25A (minimum 0A), 5VSB 2.5A (minimum 0A)
- ▶ 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 front power inlet (IEC plug)

Feature Summary

DC Power Supply (SRS-8410)

- ▶ Total power 300W
- ▶ Input range nominal 24-110VDC (16.8-137.5VDC), OVP
- ▶ Rated input current 25A@14.4VDC
- ▶ Output 12VDC 25A (minimum 0A), 5VSB 2.5A (minimum 0A)
- ▶ Regulation line <0.5%, load <1%, ripple/noise <2%pp
- ▶ Efficiency >89%
- ▶ Isolation voltage >2.8kVDC
- ▶ 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
- ▶ DC front power inlet, 3-pos. 7.62mm terminal block, 2-part pluggable connector screw locked, nominal wire cross section 4mm² (AWG10)

Cooling

- ▶ Three bottom mount fans, 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

Applications

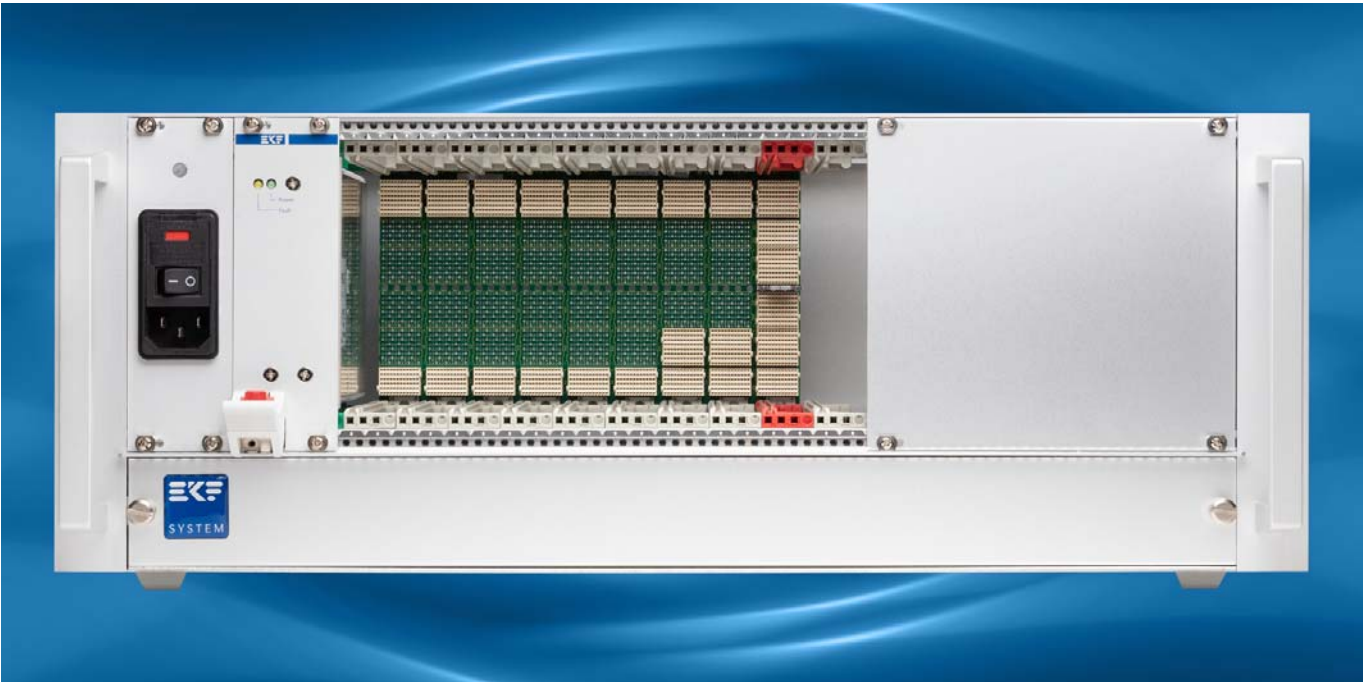
- ▶ High reliable industrial computing (IoT, edge, fog)
- ▶ Test equipment
- ▶ Automotive e.g. experimental autonomous cars
- ▶ Custom specific modifications on request

Feature Summary

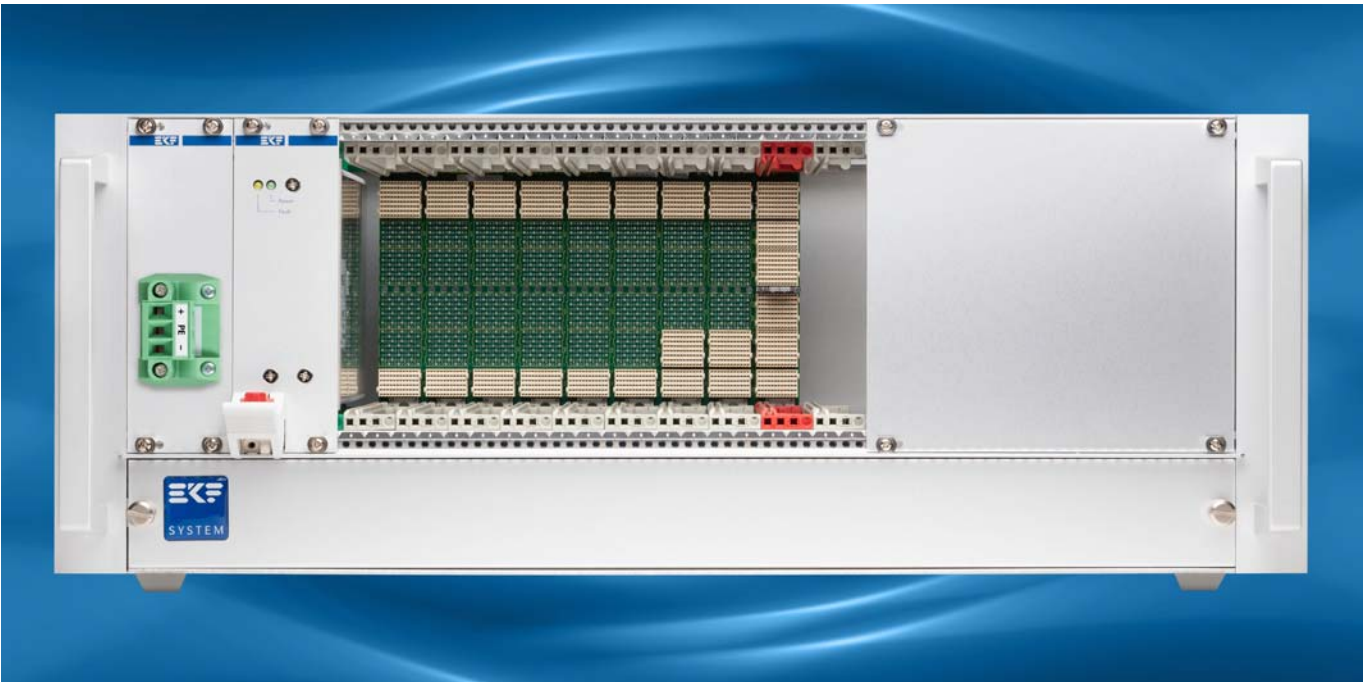
Regulatory

- ▶ 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



SRS-8401-SERIAL (AC Power Supply)



SRS-8410-SERIAL (DC Power Supply)

Beyond All Limits: EKF High Performance Embedded

Industrial Computers Made in Germany
boards. systems. solutions.

Document No. 9245 • 24 May 2019

EKF Elektronik GmbH
Philipp-Reis-Str. 4 (Haus 1)
Lilienthalstr. 2 (Haus 2)
59065 HAMM
Germany



Phone +49 (0)2381/6890-0
Fax +49 (0)2381/6890-90
Internet www.ekf.com
E-Mail sales@ekf.com