

Product Information

SD1-SATA • CompactPCI[®] Serial SATA Storage Card

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The SD1-SATA is a peripheral slot card for CompactPCI[®] Serial systems. The SD1-SATA accommodates either a 2.5-inch size SATA SSD/HDD, or a Micro-SATA 1.8-inch drive, the latter alternatively fixed on-board, or removable through a front panel slot. In addition, the SD1-SATA can be equipped with an USB Solid State Drive module, or USB stick.

With two or more SD1-SATA boards in a system, a RAID storage system easily can be configured. Front panel LEDs are provided to indicate status information. Hot swap operation is supported. When combined with the SJ1-JAM CompactPCI[®] Serial system slot controller, RAID levels 0/1/3/5/10 are available.



SD1-SATA with 2.5-Inch SSD

The SD1-SATA is a CompactPCI® Serial card. CompactPCI® Serial is a new PICMG® standard (draft as of current) for modular industrial computers, which provides high speed serial I/O (PCI Express®, SATA, USB, Gigabit Ethernet) over the backplane. The mechanical design is fully backward compatible to CompactPCI® and will interoperate with existing systems, via hybrid backplanes. Hybrid systems can be configured either by means of a CompactPCI® PlusIO CPU card such as the PC1-GROOVE (requires a common hybrid backplane), or a classic CompactPCI® CPU card (e.g. CCM-BOOGIE) together with a CompactPCI® Serial system slot controller side board such as the SJ1-JAM (independent dual-backplane solution). Native CompactPCI® Serial systems can be configured with a suitable CompactPCI® Serial system slot CPU board such as the SC1-ALLEGRO.

Benefits of the SD1-SATA

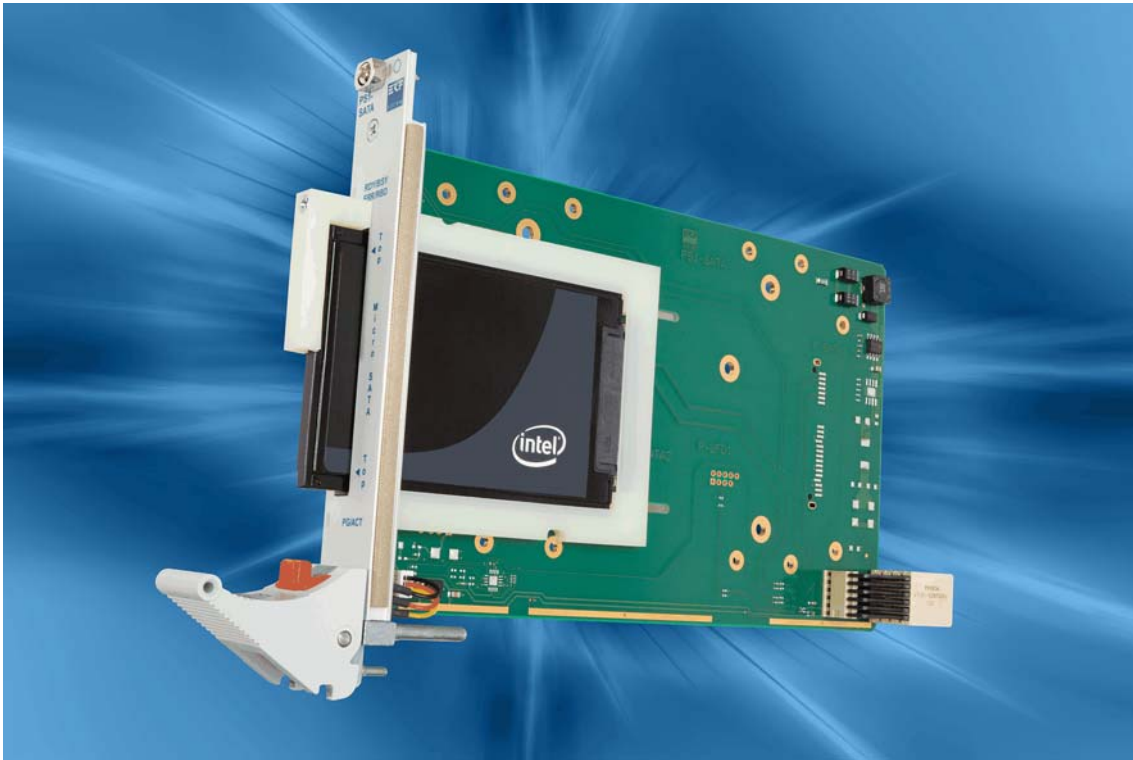
- ▶ PICMG® CompactPCI® Serial Standard (CPCI-S.0)
- ▶ Peripheral Slot Card (up to 8 SATA Channels Specified on a CPCI-S Backplane)
- ▶ Carrier Board for a Single SATA Drive, Choice Between Three Options
- ▶ Option 2.5-Inch SATA SSD/HDD
- ▶ Option 1.8-Inch Micro-SATA SSD (Permanently Attached on the PCB)
- ▶ Option 1.8-Inch Micro-SATA SSD (Removable through Front Panel Cutout)
- ▶ Additional USB SSD Module Available as an Option (Alternate Standard USB Receptacle)
- ▶ Suitable for RAID or Non-RAID Operation
- ▶ CompactPCI® Serial System Slot Controller SJ1-JAM Available (Mezzanine Side Card)
- ▶ CompactPCI® PlusIO System Slot Controller PC1-GROOVE Available (CPU Board)
- ▶ CompactPCI® Serial Backplanes Available (Hybrid or Native)
- ▶ Rugged Solution (Coating/Sealing Available on Request)
- ▶ RoHS compliant





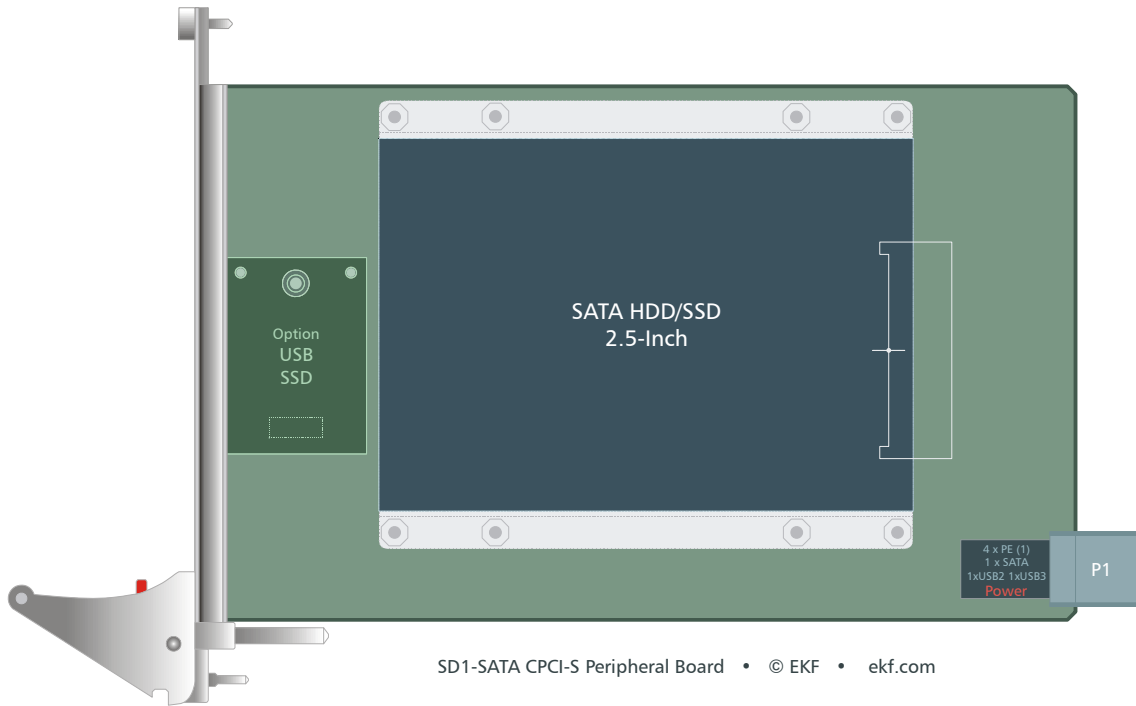
SD1-SATA with 1.8-Inch SATA SSD

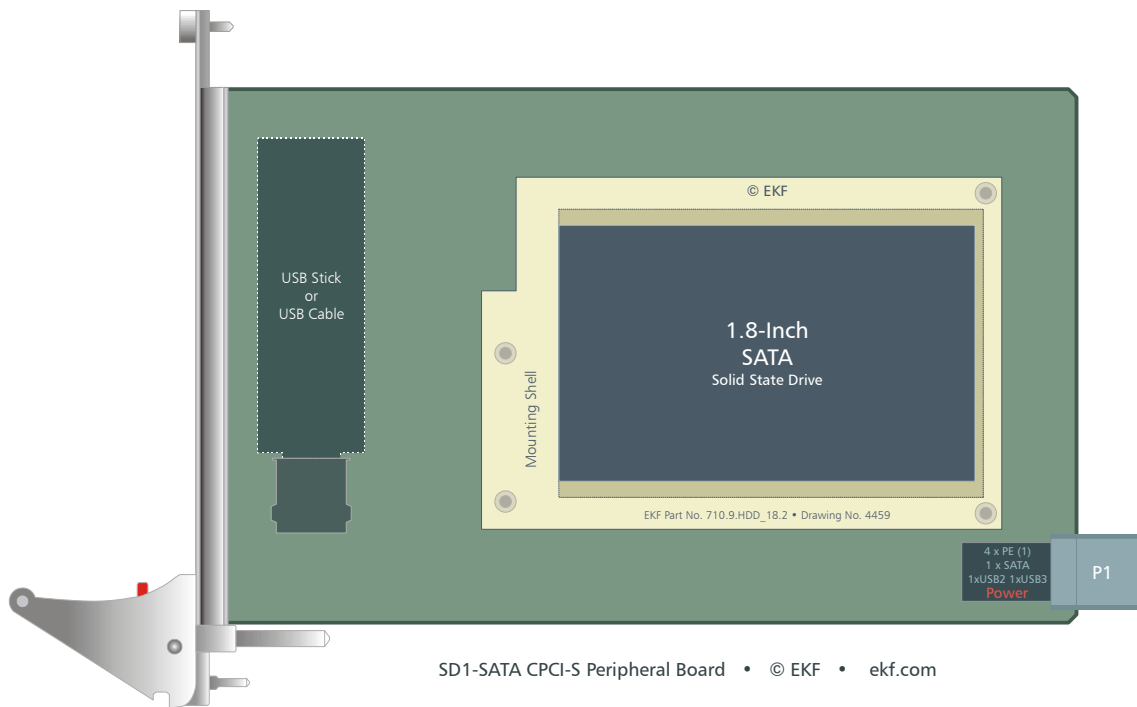




SD1-SATA with Front Panel Removable SSD

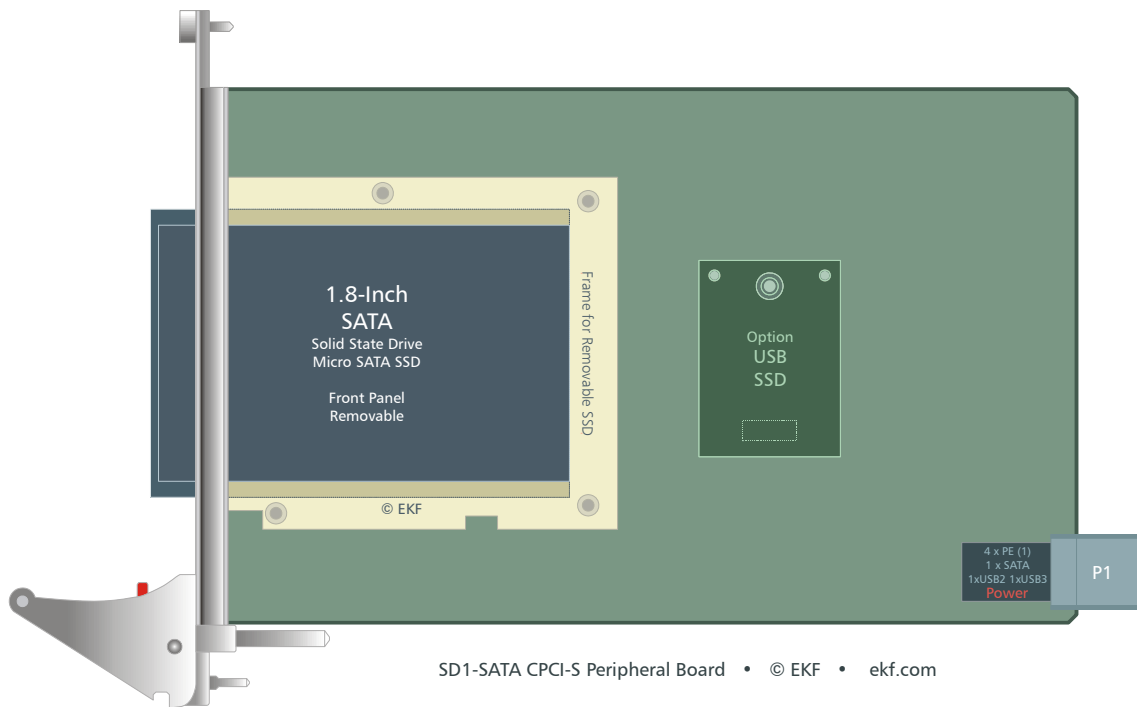






SD1-SATA CPCI-S Peripheral Board • © EKF • ekf.com

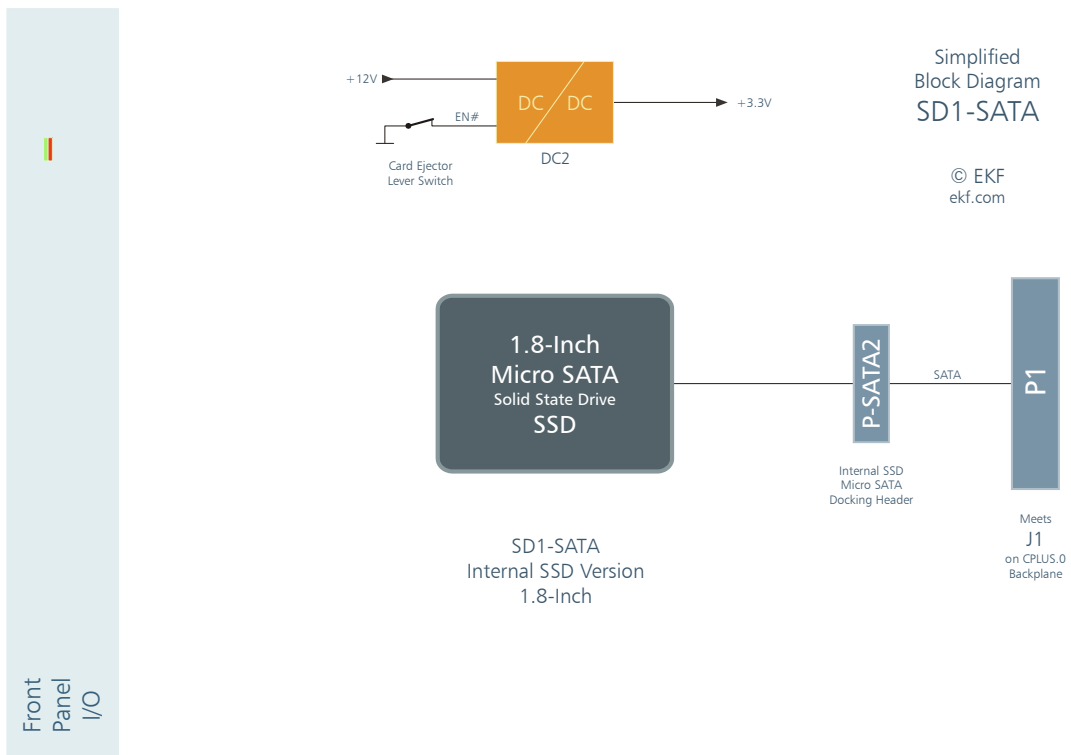
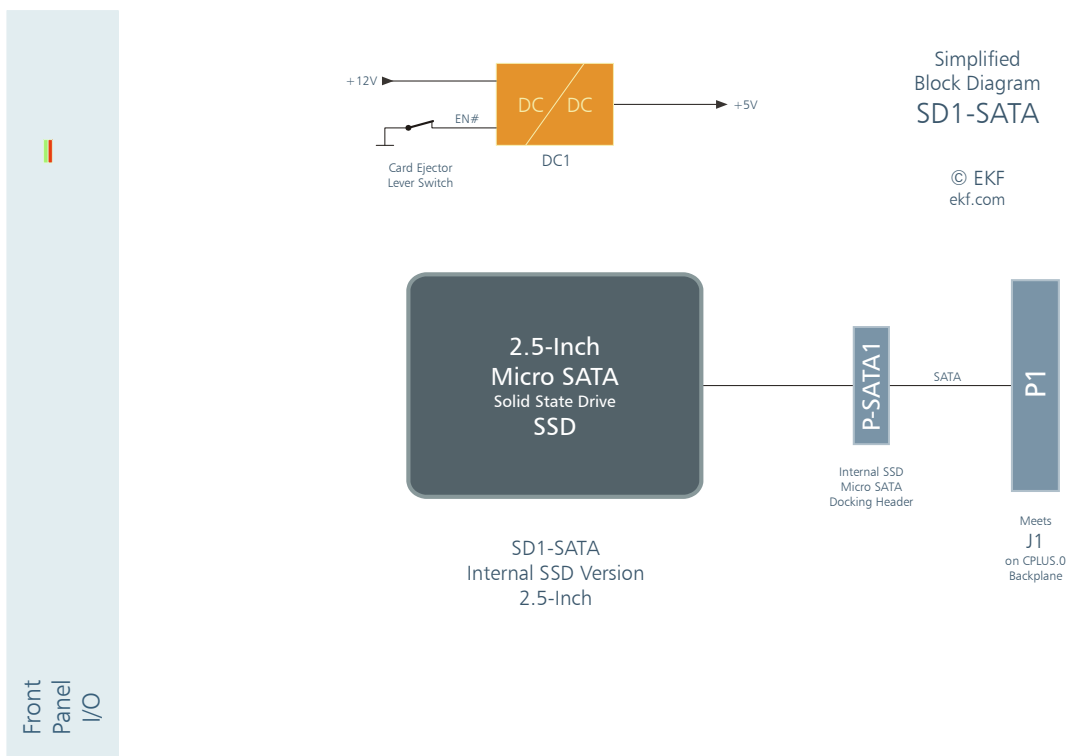


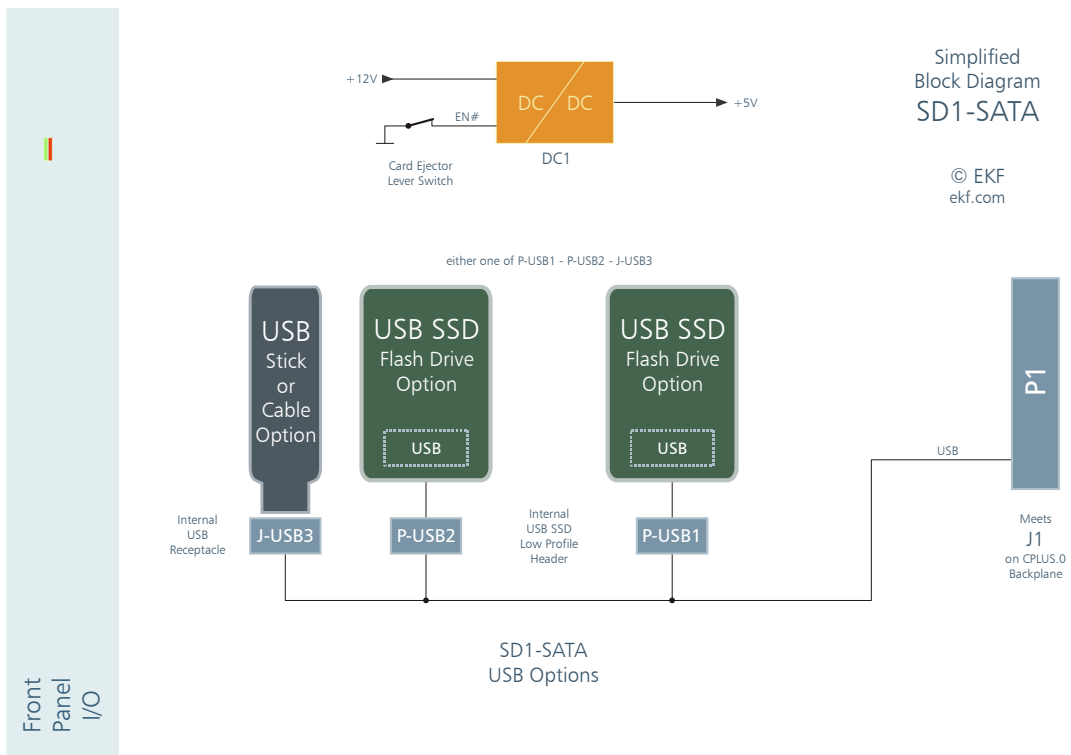
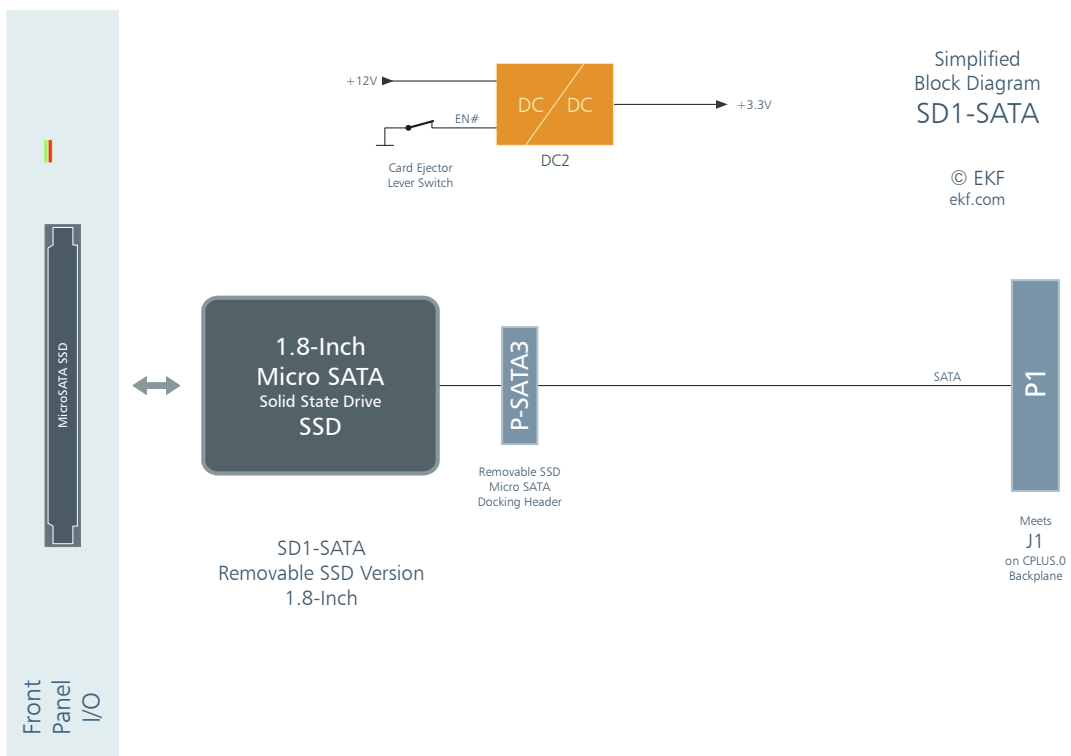


SD1-SATA CPCI-S Peripheral Board • © EKF • ekf.com

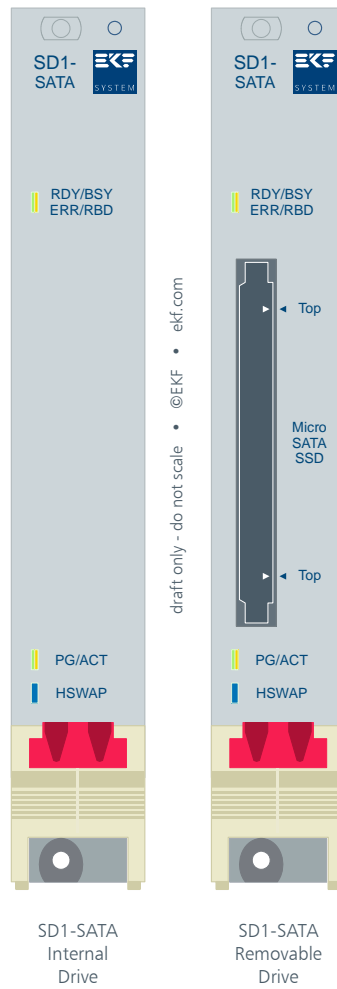


Block Diagram



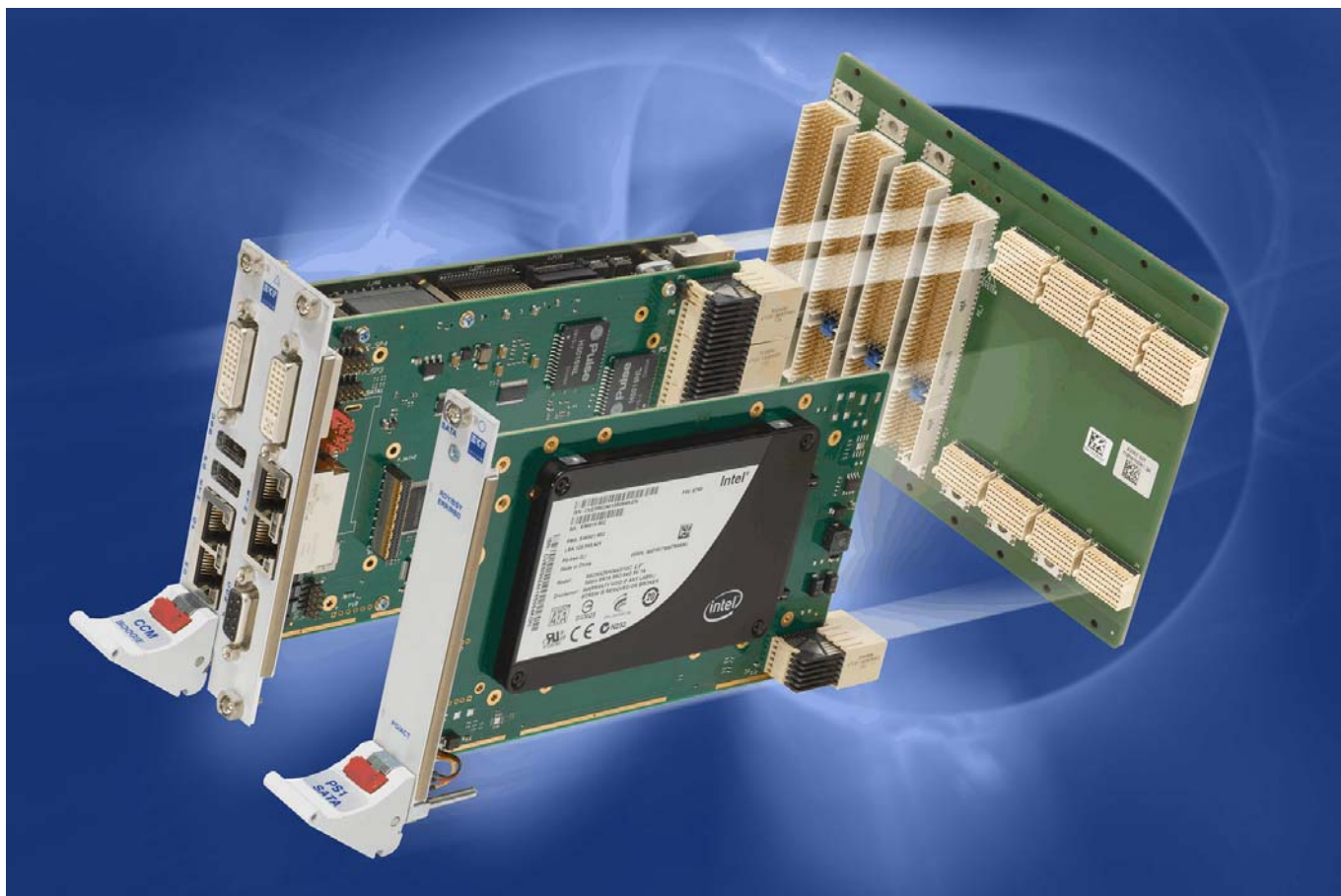


Front Panel Options





CompactPCI® Serial Connector P1



Industrial Computers Made in Germany
boards. systems. solutions.



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