



## Product Information

### SP1-BANJO

#### **CompactPCI®** Serial • ExpressCard™ Adapter

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*The SP1-BANJO is a peripheral board for CompactPCI® Serial systems. Its front panel situated ExpressCard™ slot allows flexible system expansion by an ExpressCard™ I/O or storage module. The push-push mechanics accommodate either an ExpressCard/54 (54mm x 75mm) or an ExpressCard/34 (34mm x 75mm). ExpressCard™ technology allows for installing and removing modules on the fly, without prior system shutdown. The SP1-BANJO is suitable for both types, PCI Express® and USB based ExpressCards.*

In addition, the SP1-BANJO is equipped with an Micro SATA connector, for attachment of an on-board 1.8-inch SATA SSD (Solid State Drive). SSDs offer less power consumption, superior speed, and an improved operation temperature range, compared to hard disk drives.

Furthermore, the SP1-BANJO is provided with a front panel Gigabit Ethernet jack. Usage of this connector requires a CompactPCI® Serial system with Ethernet mesh support, via the backplane connector P6 (optional).



SP1-BANJO

The SP1-BANJO is a CompactPCI® Serial peripheral card. CompactPCI® Serial (CPCI-S.0) 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 CPCI-S mechanical design is fully backward compatible to CompactPCI® and will interoperate with existing systems, by means of a hybrid backplane.

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.

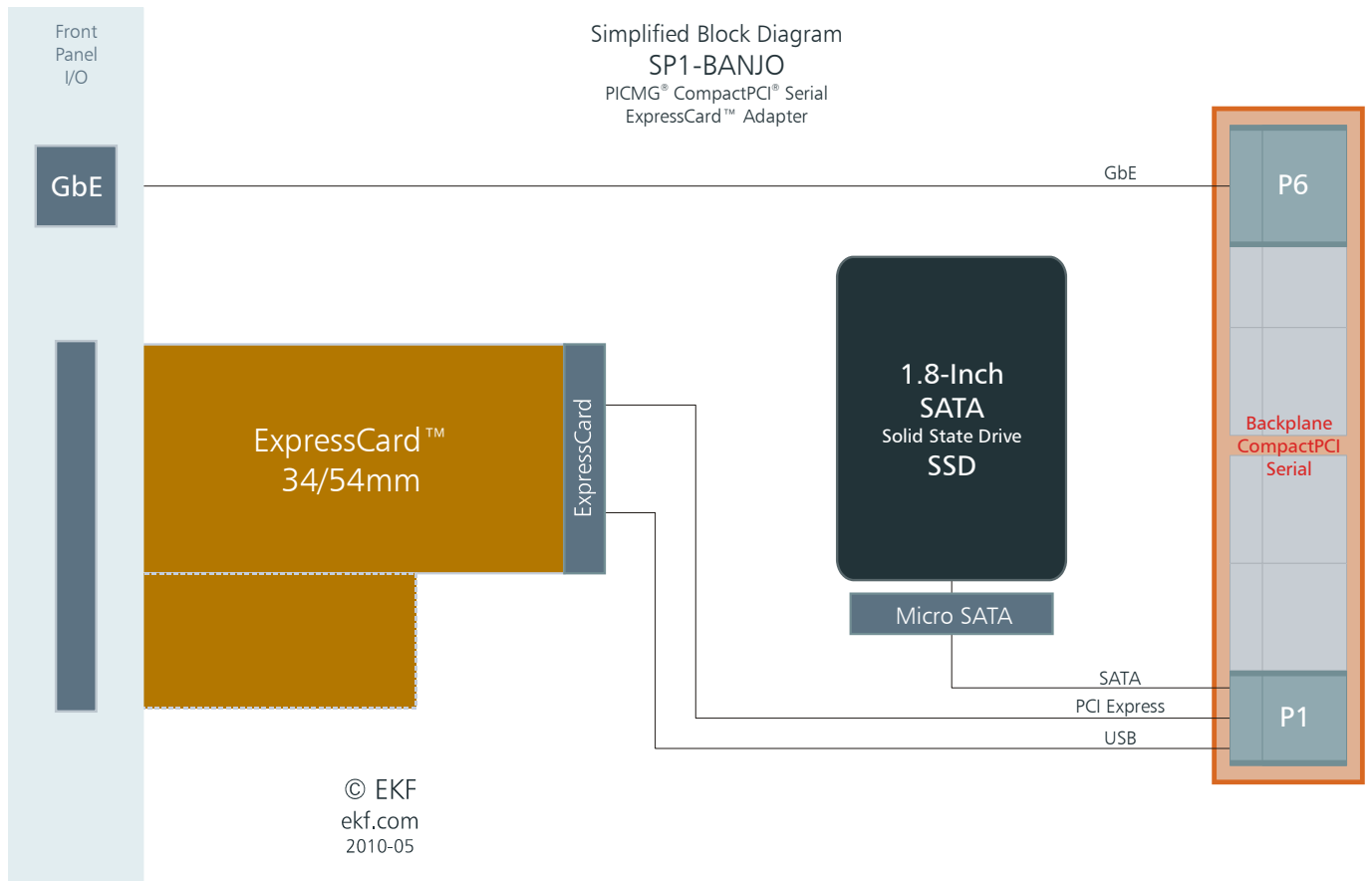
### Benefits of the SP1-BANJO

- ▶ PICMG® CompactPCI® Serial Standard (CPCI-S.0) Peripheral Slot Card
- ▶ Single Size Eurocard 4HP 100x160mm<sup>2</sup>
- ▶ Backplane Connectors P1 (Mandatory) and P6 (Usage Optional)
- ▶ ExpressCard™ Host Adapter, Front Panel Access for 54mm and 34mm Width Cards
- ▶ PCI Express® and USB Based ExpressCard™ Supported
- ▶ Option 1.8-Inch Micro-SATA SSD (Permanently Attached to the PCB)
- ▶ Option Gigabit Ethernet Front Panel Jack (Backplane Slot Must Support P6 Ethernet)
- ▶ Long Term Availability
- ▶ Rugged Solution (Coating/Sealing Available on Request)
- ▶ RoHS compliant



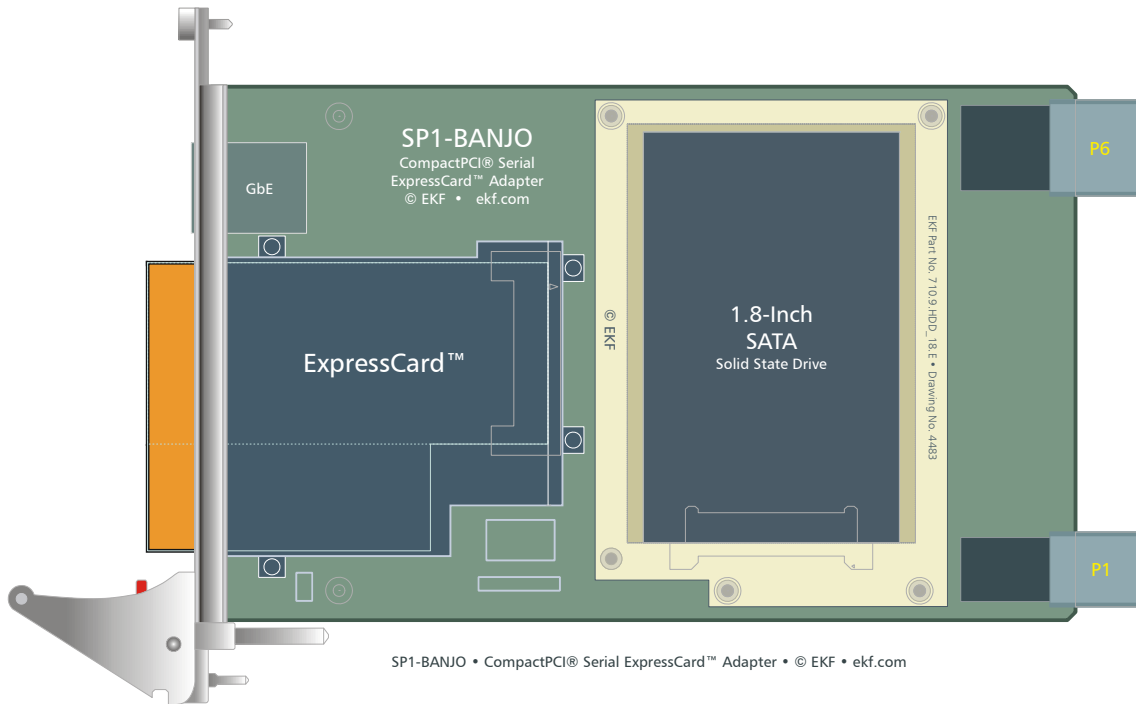
Hybrid System w. SP1-BANJO (Rightmost Card Slot)

### Block Diagram



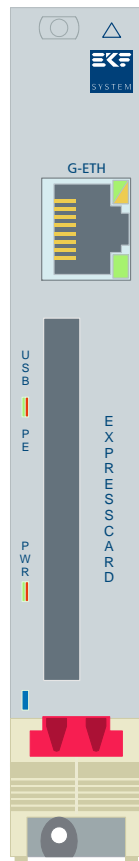
SP1-BANJO (Shown w. ExpressCard)

### Connector Assembly



SP1-BANJO Top View

### Front Panel



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SP1-BANJO



Related Products • C = Classic  
PICMG® 2.0 CompactPCI®

CCM-BOOGIE	CompactPCI® System Slot CPU, for Usage Together with SJ1-JAM and Split Backplanes • <a href="http://www.ekf.com/c/ccpu/ccm/ccm_e.html">www.ekf.com/c/ccpu/ccm/ccm_e.html</a>
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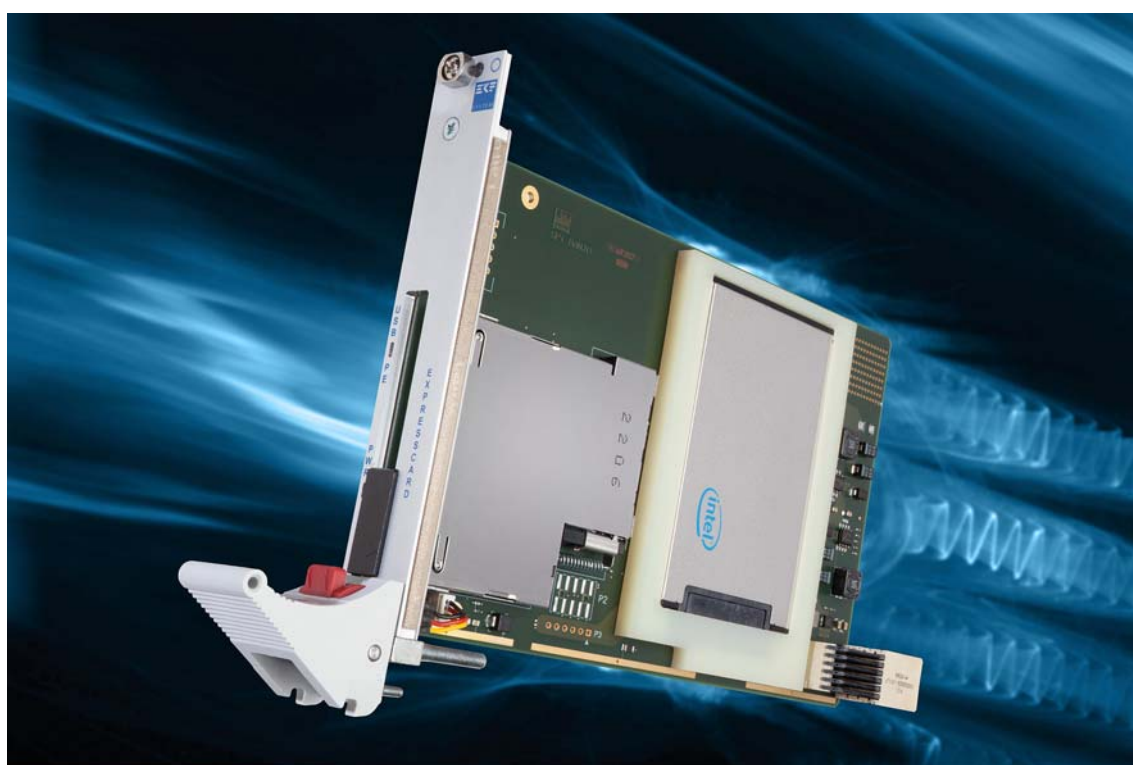
Related Products • P = PlusIO  
PICMG® 2.30 CompactPCI® PlusIO

PC1-GROOVE	CompactPCI® PlusIO CPU Card, for Hybrid Backplanes <a href="http://www.ekf.com/p/pc1/pc1.html">www.ekf.com/p/pc1/pc1.html</a>
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Related Products • S = Serial  
PICMG® CPCI-S.0 CompactPCI® Serial

SJ1-JAM	CompactPCI® Serial System Slot Controller Side Card, for Usage Together with CCM-BOOGIE and Split Backplanes • <a href="http://www.ekf.com/s/sj1/sj1.html">www.ekf.com/s/sj1/sj1.html</a>
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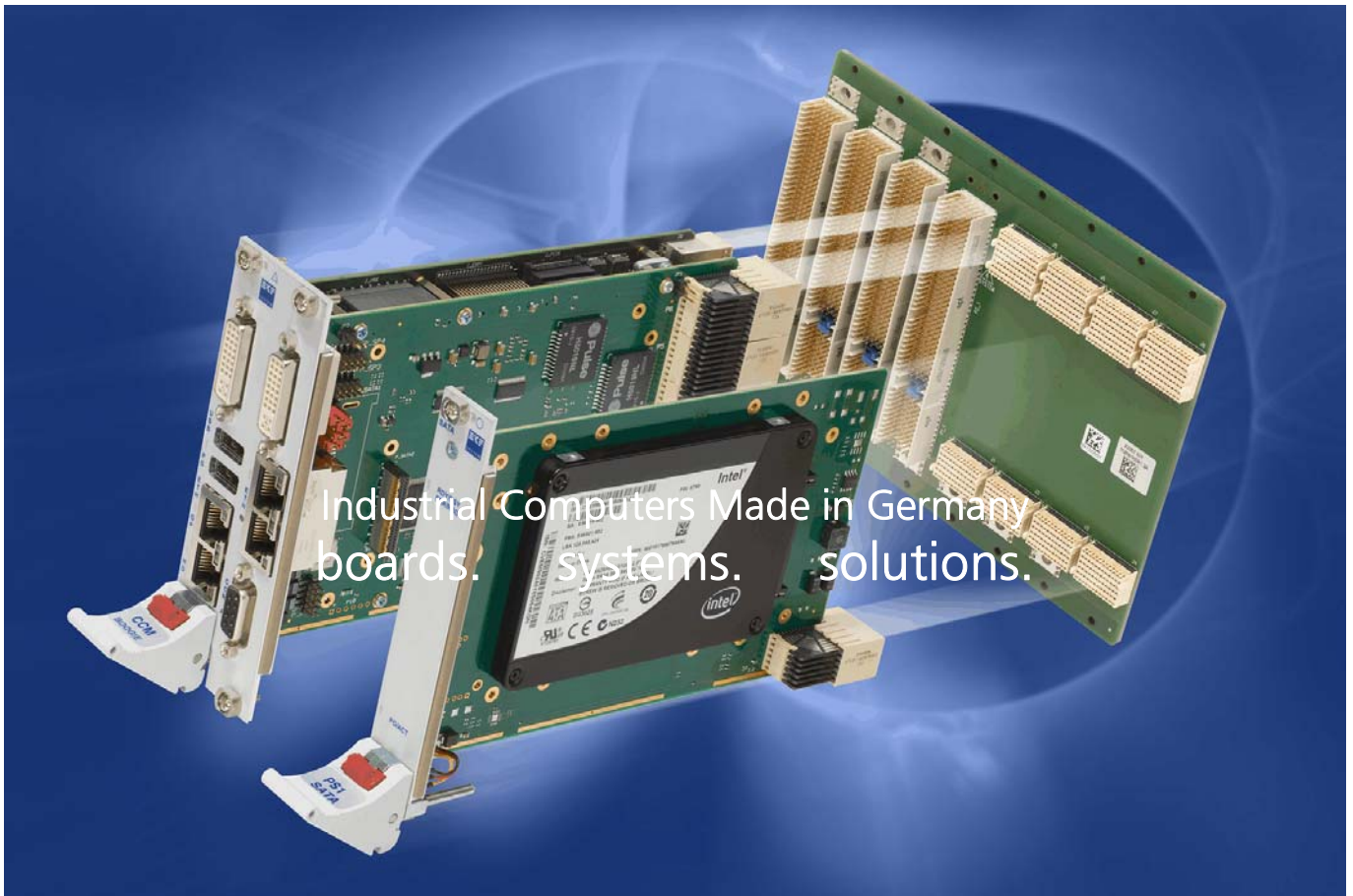
SC1-ALLEGRO	CompactPCI® Serial System Slot CPU Card, for Native CompactPCI® Serial Backplanes
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SP1-BANJO w/o RJ45



Rugged Industrial Systems (SP1-BANJO Rightmost)



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boards. systems. solutions.

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