

3U CompactPCI[®] Side Card

- 8 HP extension for 3U Intel[®] SBCs
- 2 DVI connections 2.5"
- SSD up to 512 GB



The BF1903 is a 4HP I/O extension card for 3U Intel based CompactPCI single-board computers. It can be used in combination with the F19 and compatible CPU boards.

The DVI interface supporting the digital PanelLink technology deliver a maximum of 1600 x 1200 pixels in true-color mode. Together with the analog CRT interface from the CPU board it is possible to connect three monitors. In addition an onboard mSATA disk slot is available.

The BF1903 is plugged to the right side of the respective singleboard computer directly. A robust connector makes for high mechanical stability. The BF1903 delivered with an 8HP front panel, replacing the 4HP front panel of a 3U single-board computer and thus front panel is solid and one-piece.

Technical Data

I/O

- **DVI**
 - Two DVI-D connectors at front panel
 - SDVO PanelLink transmitter
 - Maximum resolution: 1600 x 1200 pixels
 - 60Hz refresh rate
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Mass Storage

- **Serial ATA (SATA)**
 - One port for mSATA disk drive
 - Transfer rates up to 150MB/s (depends on disk)
 - RAID level 0/1 support (depends on CPU board)
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Miscellaneous

- **CompactPCI® J1 and J2 are assembled for increased mechanical stability and/or for power supply via J1**
 - **CompactPCI® J2 can optionally be used to realize several functions via rear I/O. See Options.**
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Electrical Specifications

- **Supply voltage/power consumption:**
 - +5V (-3%/+5%), 635mA typ. with disk, max. value depends on disk
 - +3.3V (-3%/+5%), 500 mA typ.
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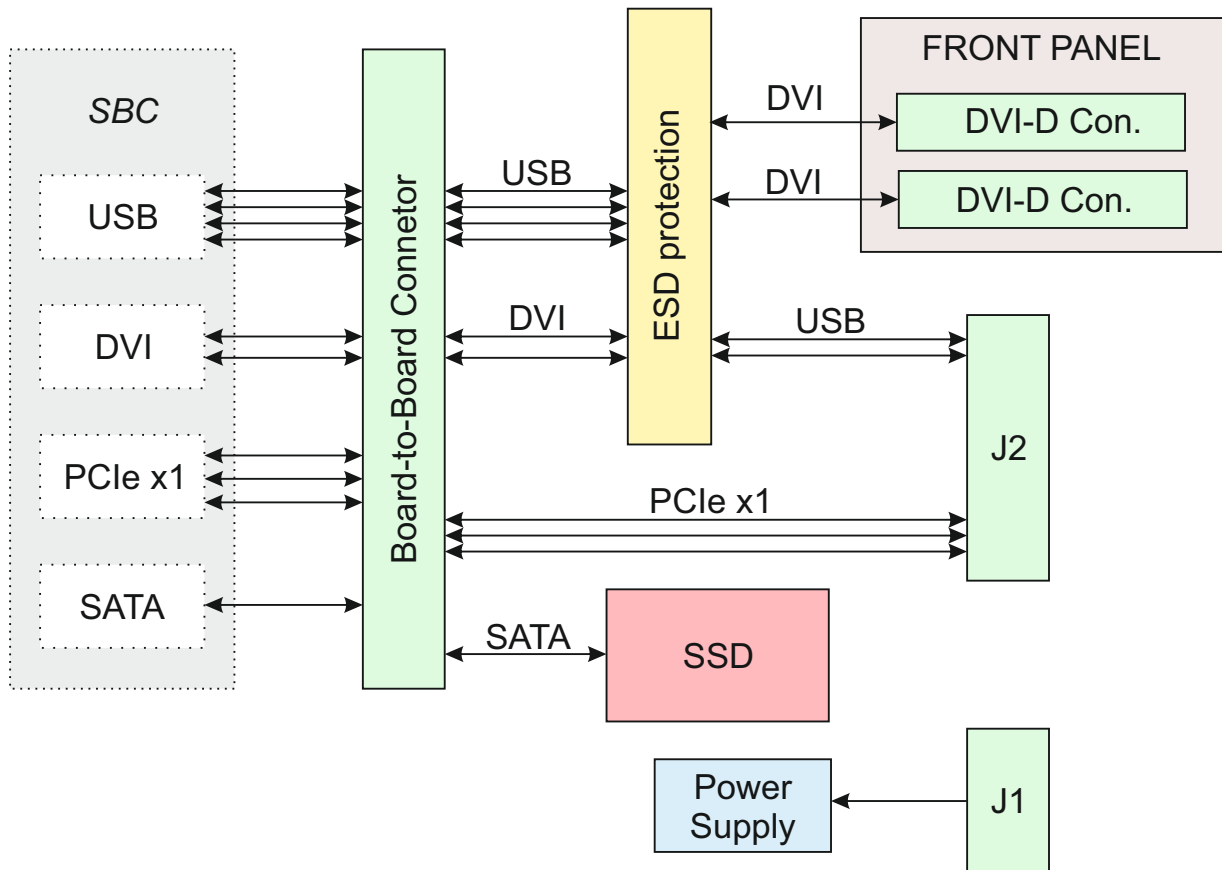
Mechanical Specifications

- **Dimensions: conforming to CompactPCI® specification for 3U boards**
 - **Weight: 330g (with hard disk and 8HP front panel)**
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Environmental Specifications

- **Temperature range (operation):**
 - 0..+60°C up to -40..+85°C (depending on hard disk; please refer to the hard disk specifications for possible limits)
 - Industrial temperature range on request
 - Airflow: min. 10m³/h
- **Temperature range (storage): -40..+85°C**
- **Relative humidity (operation): max. 95% non-condensing**
- **Relative humidity (storage): max. 95% non-condensing**
- **Altitude: -300m to + 3,000m**
- **Shock: 15g/11ms**
- **Bump: 10g/16ms**
- **Vibration (sinusoidal): 2g/10..200Hz**
- **Conformal coating on request**

Block Diagram



Pin Assignment - I/O Connector

in the process of development

Contact Information

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