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Find the *EKF CB2-PIPE* at our website: *Click HERE*

Product Information

CompactPCI® USB 2.0 Host Controller • CB2-PIPE

Document No. 3528 • Edition 2009-11

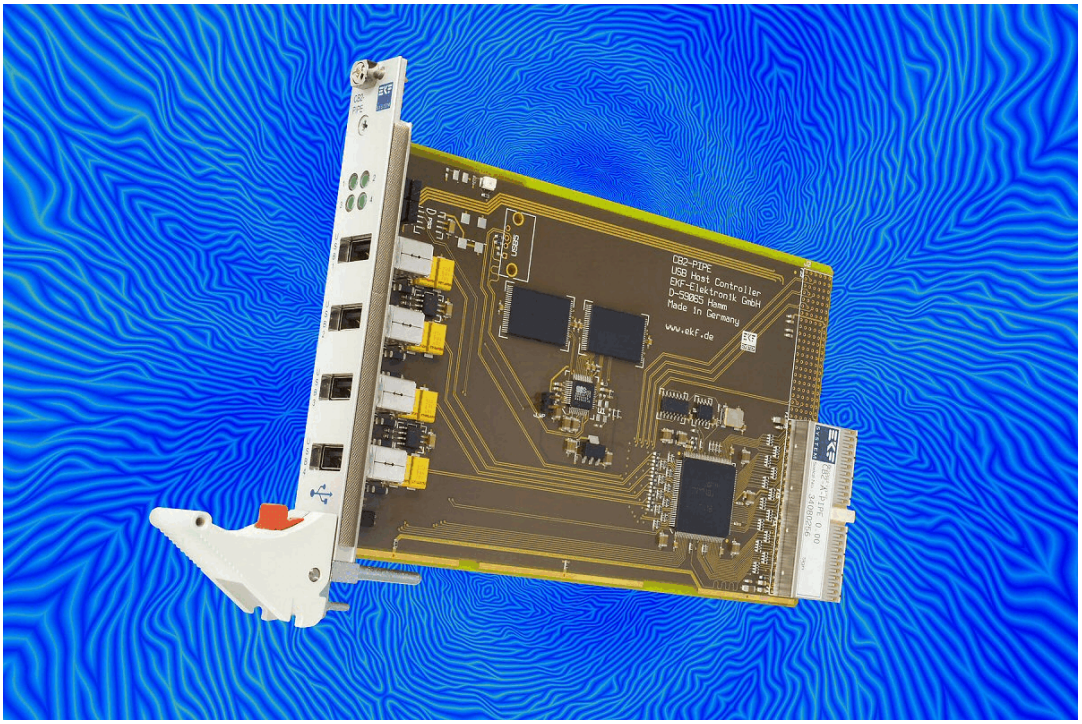
*The **CB2-PIPE** is a 5-port USB2.0 host controller. The 3U **CompactPCI®** board complies with the Universal Serial Bus Specification Revision 2.0 and Open Host Controller Interface (OHCI) Specification for full-/low-speed signalling and the Intel Enhanced Host Controller Interface (EHCI) Specification for high-speed data transfers. All downstream facing ports can handle high-speed (480Mbps), full-speed (12Mbps), and low-speed (1.5Mbps) transaction.*

In addition, the CB2-PIPE optionally can be equipped with an on-board Flash disk drive.

All USB power lines are protected against over-current and short circuit conditions. Four of five USB ports are accessible from the front panel.

The fifth USB connector is situated on-board for system internal usage (as an alternate to the Flash drive).

All popular OS come with suitable drivers for the CB2-PIPE. In addition, any recent BIOS offers boot via OHCI. In order to boot in high-speed mode from a drive attached to the CB2-PIPE, the BIOS must also handle EHCI based data transfer.

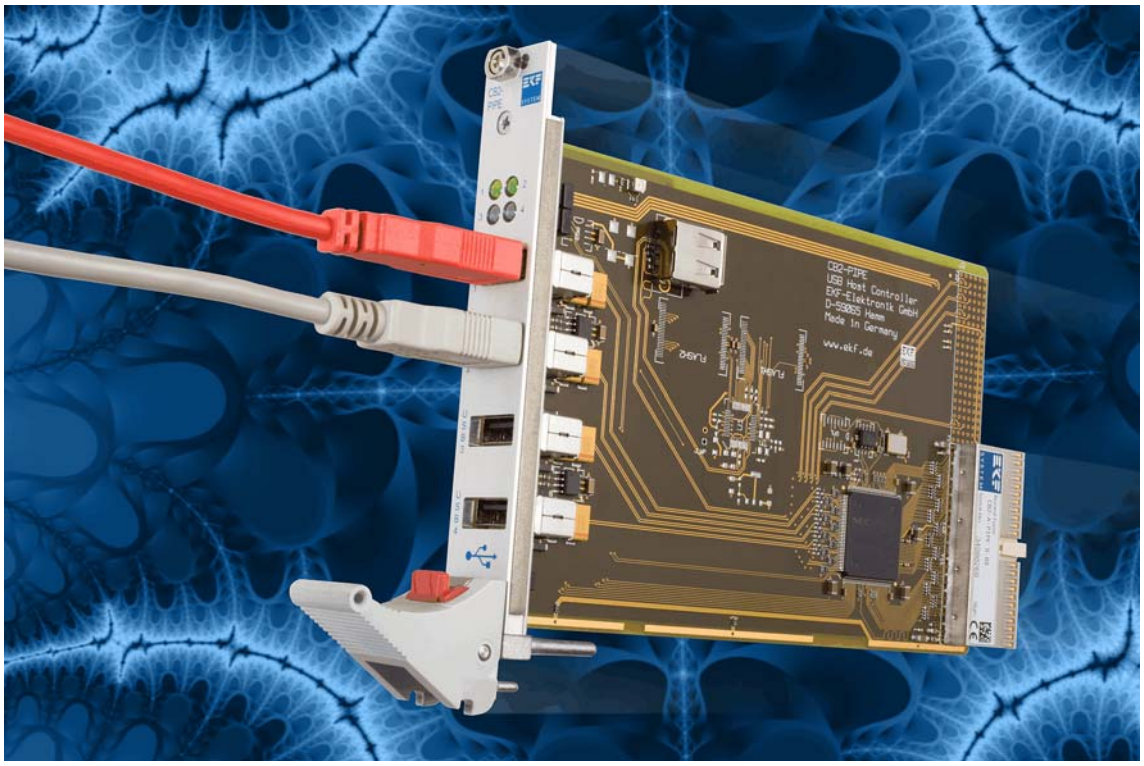


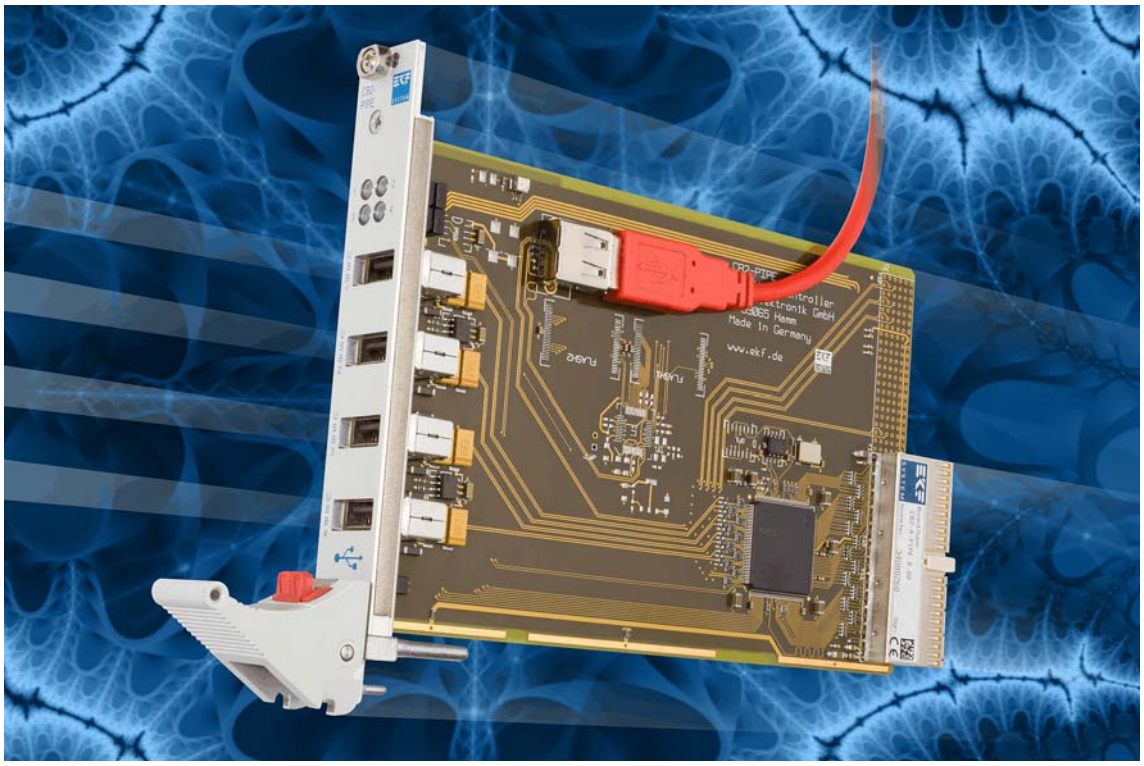
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Feature Summary CB2-PIPE	
Form Factor	Single size *CompactPCI* style Eurocard (160x100mm^2), front panel width 4HP (20.3mm)
USB	Root hub with 5 downstream facing ports, all ports over-current protected, data transfer rate up to 480Mbps, conforming to USB2.0, OHCI Rev. 1.0a, EHCI Rev. 1.0 • USB port 1-4 wired to front panel type A connectors • USB port 1-4 optionally wired to J2 for rear I/O usage (front panel connectors USB1-4 removed), stuffing option - please take into consideration when ordering • USB port 5 wired to the on-board type A connector • USB port 5 optionally dedicated to the on-board USB Flash drive (on-board connector USB5 removed), stuffing option - please take into consideration when ordering
FLASH Drive	Optional on-board USB2.0 Flash drive controller and 2 pcs. NAND Flash up to 8Gbit each (total memory capacity up to 2GByte), ransfer rates of up to 18MB/s for read and 13MB/s for write, can be used as bootable device (observe Flash memory capacity limitations, e.g. a non trimmed down typical Windows® installation may require significantly more than 1GByte), stuffing option - please take into consideration when ordering
CompactPCI®	32-bit, 133MBps CPCI master, 3.3V/5V Vio
Typical Power Consumption	• +3.3V +0.17V/-0.1V 0.4A max. (w/o on-board Flash disk drive option) • +5V ± 5% 0.1A max. (w/o external current consuming USB devices) • +Vio 3.3V/5V 0.1A max.
Thermal Conditions	• Operating temperature: 0°C ... +70°C • Storage temperature: -40°C ... +85°C
Environmental Conditions	• Humidity 5% ... 95% non condensing • Altitude -300m ... +3000m
Shock	15g 0.33ms, 6g 6ms
Vibration	1g 5-2000Hz
MTBF	0.333 * 10^6h

subject to change

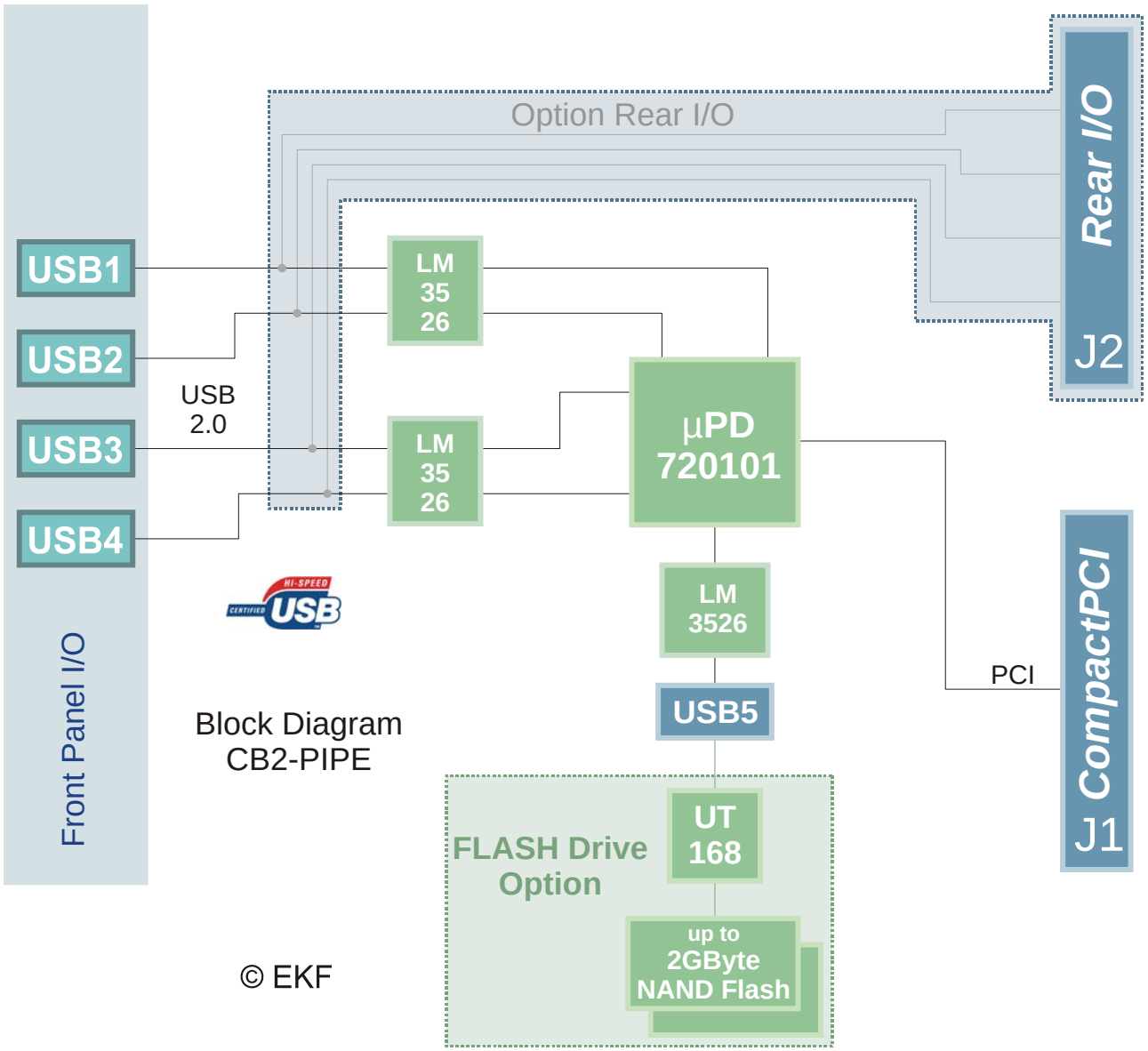
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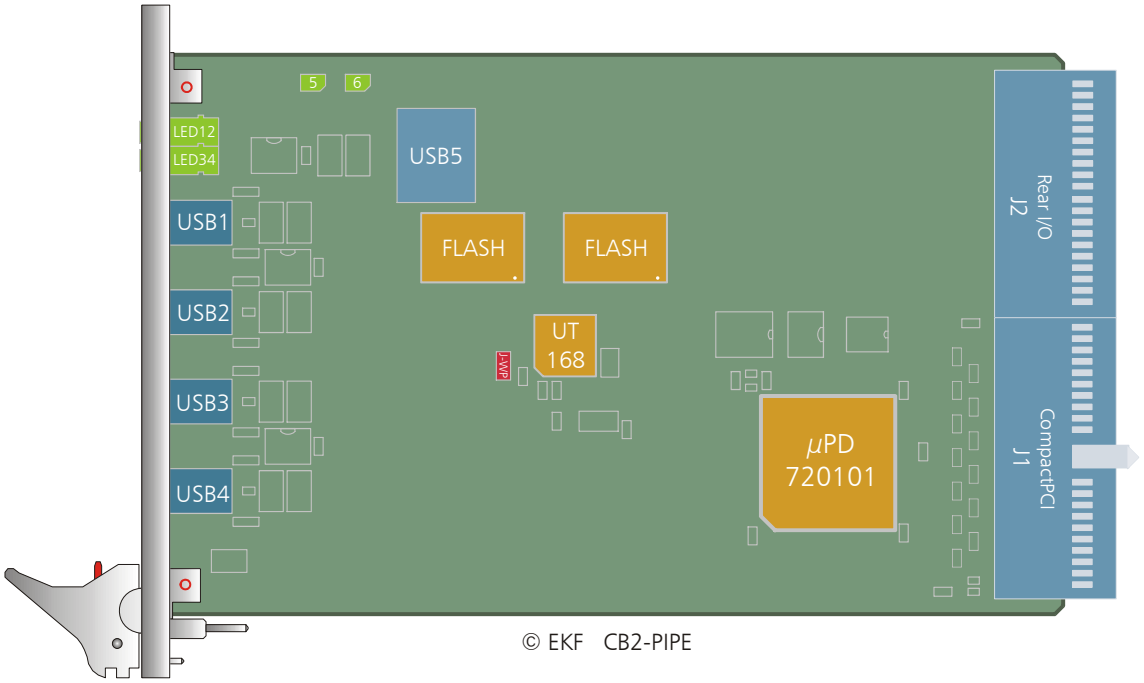
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Block Diagram CB2-PIPE

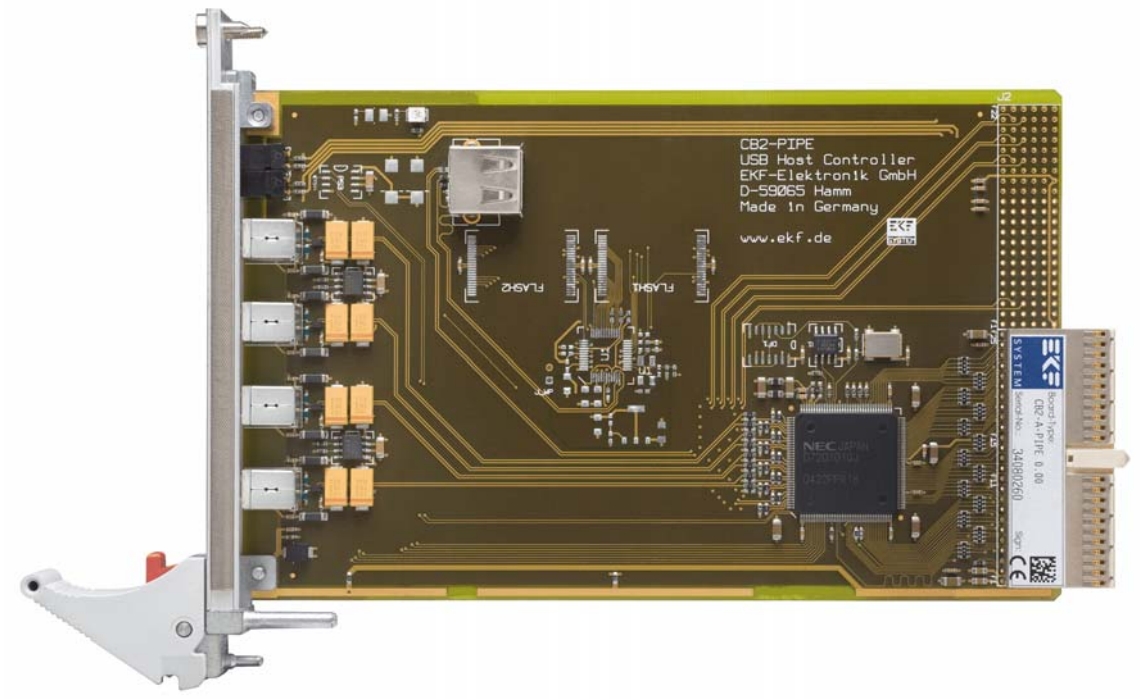


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Orientation of Connectors CB2-PIPE

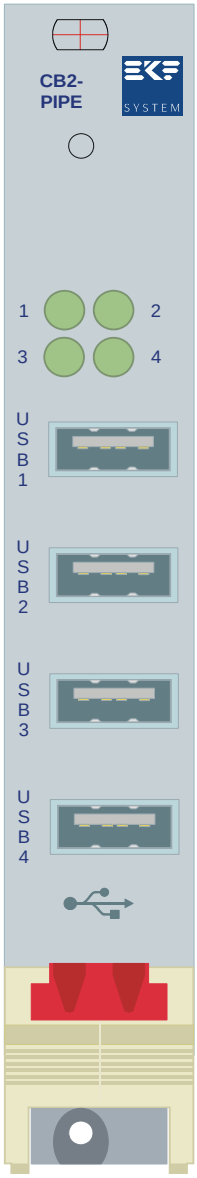


© EKF CB2-PIPE



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Front Panel I/O Functions CB2-PIPE



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Ordering Information

Please refer to www.ekf.com/liste/liste_20.html for popular CB2-**-PIPE SKUs

For custom specific versions, please mail to sales@ekf.de



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