

Product Information

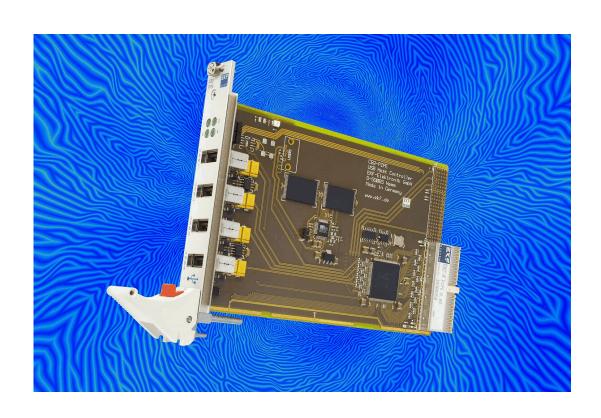
CompactPCI® USB 2.0 Host Controller • CB2-PIPE

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The CB2-PIPE is a 5-port USB2.0 host controller. The 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.

All USB power lines are protected against overcurrent 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 (either USB stick or USB cable attached device).

Any popular operating system provides suitable drivers for the CB2-PIPE. In addition, any recent BIOS allows to boot from an USB device via OHCI or high speed EHCI data transfer modes.



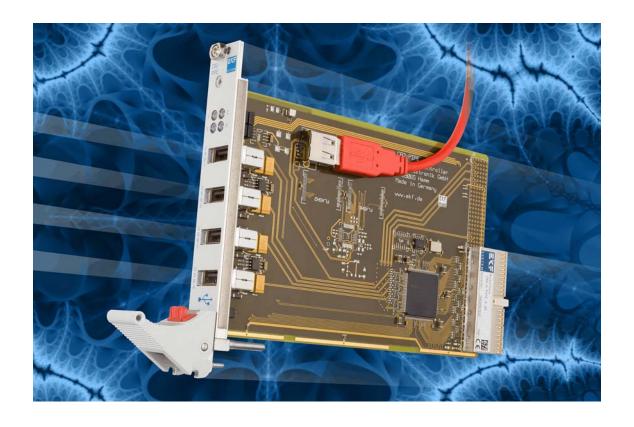
CB2-PIPE • CompactPCI® • USB2.0 Host Adapter

	Feature Summary
Dimensions	► 3U Eurocard (100x160mm²) Front panel width 4HP
CompactPCI®	 Peripheral Card 32bit, 33MHz (133MBps), 3.3V or 5V interface Ready for usage in PXI® systems
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 Proven PCI to USB 2.0 controller NEC (Renesas) uPD720101 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 before ordering USB port 5 wired to the on-board type A connector
Power Requirements	 +5V ±5% 0.1A max. (w/o current required by USB devices via VBUS) +3.3V +0.17V/-0.1V 0.4A max. Vio (+5V or +3.3V) 0.1A max
Environment Regulation	 Operating temperature: 0°C to +70°C (industrial temperature range on request) Storage temperature: -40°C to +85°C, max. gradient 5°C/min Humidity 5% 95% RH non condensing Altitude -300m +3000m Shock 15g 0.33ms, 6g 6ms Vibration 1g 5-2000Hz MTBF tbd years Coating, sealing, underfilling on request RoHS compliant 2002/95/EC EC Regulations EN55022, EN55024, EN60950-1 (UL60950-1/IEC60950-1)

subject to change

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CB2-PIPE Home: www.ekf.com/c/cusb/cb2/cb2 e.html

CB3-TONE Home: www.ekf.com/c/cusb/cb3/cb3.html

4 x USB 3.0 F/P Connectors

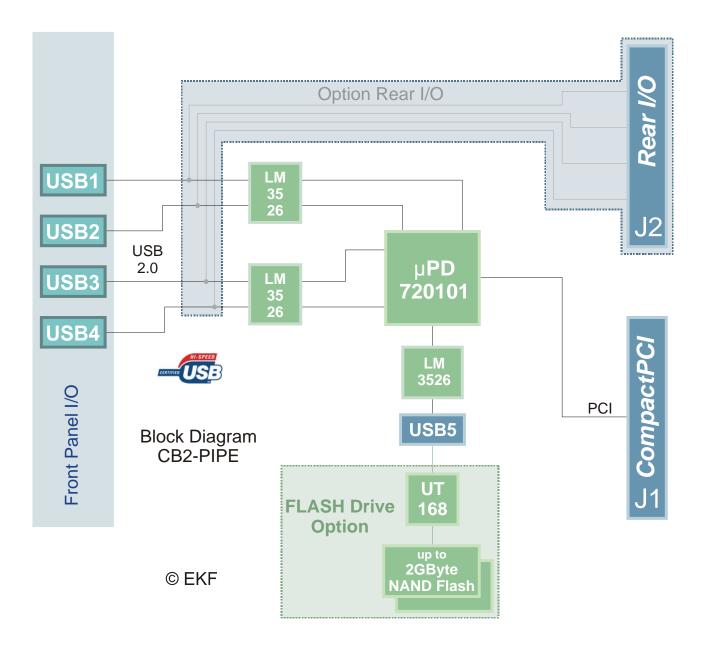
CE3-GIG Home: www.ekf.com/c/cide/ce3/ce3.html

3 x USB/eSATA F/P Combo Connectors

Ordering Information

For popular CB2-PIPE SKUs please refer to www.ekf.com/liste/liste 20.html#CB2

Block Diagram CB2-PIPE



Front Panel I/O Functions CB2-PIPE







Industrial Computers Made in Germany boards. systems. solutions.

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



