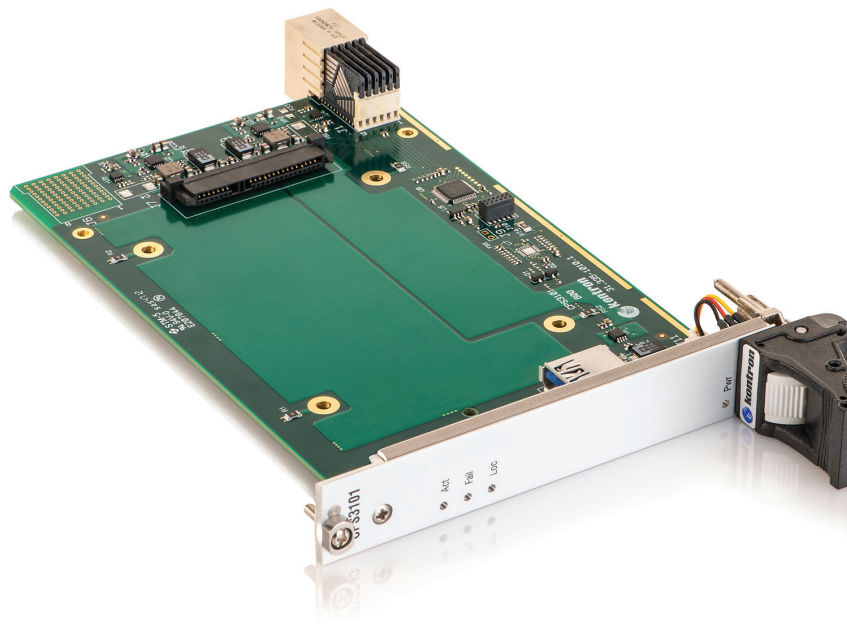# » CPS3101 «

3U CPCI-S.0 Carrier for 2.5" SATA HDD/SSD

» **High-Speed Connectivity**
SATA 6Gb/s and USB 3.0 compliant

» **Service-Friendly Implementation**
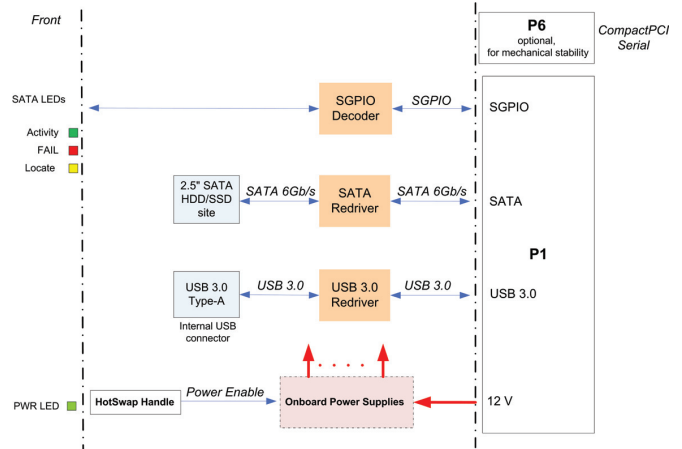LEDs for status indication and hot swap support

» **Rugged Design**
Optionally with P6 for increased mechanical stability

CPS3101
3U CPCI-S.0 Carrier for 2.5" SATA HDD/SSD

The CPS3101 is a 3U CompactPCI® Serial carrier board that provides support for one 2.5" SATA HDD or SSD (transfer rates up to 6Gb/s are supported). In addition, the CPS3101 is equipped with an onboard USB 3.0 connector enabling the connection to system-internal USB devices. To ensure maximum signal integrity, redriver components are used for the SATA and USB interfaces.

The complete board design is optimized for best shock and vibration resistance. Moreover, it offers customers a service-friendly implementation. Status information of the carrier board and the drive assembled are shown via four LEDs on the front panel. If a drive fails, the complete carrier board can be hot swapped during system operation.

Technical Information

Front Interfaces	
LEDs	» Act (Activity): Activity of the HDD/SSD » Loc (Locate): Locates the HDD/SSD in a RAID array » Fail (Error): Failure Status of the HDD/SSD » Pwr (Power): Power Status of the CPS3101
Hot Swap Handle	If the HS handle is pressed the onboard power supplies will be shut down and the board can be safely removed from the CPCI-S.0 system environment
Onboard Interfaces	
SATA	One SATA connector for connecting one 2.5" SATA HDD/SSD, SATA 6Gb/s
USB	One angled USB 3.0 connector, 9-pin type-A
CompactPCI Serial Interface	
CPCI-S.0 Interface	» P1 connector supporting one SATA 6Gb/s, one USB 3.0 interface and the SGPIO bus » Option to assemble the P6 for increased mechanical stability
Compliancy	» CompactPCI® Serial Specification PICMG® CPCI-S.0 R1.0 » Safety: compliant to IEC60950-1, EN60950-1, UL94-V0; designed to meet: UL60950-1, CSA 22.2 No. 60950-1 » EMC: compliant to EN55022 Class B, EN55024, EN61000-6-1/ -2/ -3 /-4, EN50121-3-2 (Railway); designed to meet: FCC, VCCI, BSMI
General	
Dimensions	3U / 4HP, 100 x 160 mm
Weight	135 g
MTBF	1,731,576 h acc. to MIL-HDBK-217 FN2, Ground Benign, controlled at 30°C
Environmental	
Operating Temperature	0°C to +60°C standard, -40°C to +85°C extended temperature
Storage Temperature	-40°C to +85°C (without additional components)
Climatic Humidity	93% RH at 40°C, non-condensing (acc. to IEC 60068-2-78)

Ordering Information

Article	Description
CPS3101	3U/4HP carrier board for one 2.5" SATA HDD/SSD, internal USB 3.0 connector

Please contact your local sales representative for other configuration options.

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