CompactPCI® PlusIO ...

... hybrid CompactPCI® & CompactPCI® Serial
CompactPCI® goes Serial

A CompactPCI® PlusIO CPU card in the middle of a hybrid common backplane allows employment of both - CompactPCI® Classic and CompactPCI® Serial peripheral boards in one system.

CompactPCI® Migration Path

CompactPCI® Classic
EKF Series C**
PICMG® 2.0
www.ekf.com/c/cpci.html

Parallel Backplane
Total Bandwidth
133MB/s
(32-bit 33.3MHz PCI)
J1 = PCI   J2 = User I/O

CompactPCI® PlusIO
EKF Series P**
PICMG® 2.30
www.ekf.com/p/plus.html

J2 Serial
4xPCIe  2x1/10GE
4xSATA  4xUSB

J1 Parallel
PCI

J2 is a High Speed Signal UHM Connector
Usage for RIO or routed to CompactPCI® Serial Backplane slots

CompactPCI® Serial
EKF Series S**
PICMG® CPCI-S.0
www.ekf.com/s/serial.html

Serial Backplane
up to 40 x PCIe  8 x 1/10GE
8 x SATA 8 x USB2.0/3.0
Connectors P1-P6

CompactPCI® PlusIO (PICMG® 2.30) • CompactPCI® Serial (PICMG® CPCI-S.0)
CompactPCI® PlusIO & CompactPCI® Serial Hybrid Backplane

New defined CPCI PlusIO system slot J2/P2 delivers high speed serial I/O to CPCI Serial peripheral slots: PCIe SATA USB GbE
CompactPCI® PlusIO CPU Card

A CompactPCI® PlusIO CPU card opens the migration path to CompactPCI® Serial while maintaining compatibility to 32-bit CPCI classic systems. UHM high speed connector replaces standard J2 (same footprint)

www.ekf.com/p/pc5/pc5.html
CompactPCI® PlusIO CPU Card

The CompactPCI® PlusIO connector J2 is a high speed signal receptacle (same dimensions as classic J2)

CompactPCI® PlusIO CPU Card

Low Power CompactPCI® PlusIO CPU card - PC6-TANGO

PC6-TANGO even for Low Power CompactPCI® Serial
CompactPCI® PlusIO CPU Card

4th/5th Generation CompactPCI® PlusIO CPU card - PC4-PRESTO & PC5-LARGO


www.ekf.com/p/pc5/pc5.html
CompactPCI® PlusIO CPU Mezzanine Expansion

Side board I/O connectors for mezzanine expansion available on EKF CPU cards

PC5-LARGO
Intel® 5th Gen Core™ CPU
© EKF • ekf.com

CompactPCI® Classic
up to 8 Slots

CompactPCI® PlusIO - the best of two worlds joined

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CompactPCI® PlusIO CPU Side Cards

Mezzanine expansion modules available (8HP assembly)
CompactPCI® Classic & CompactPCI® Serial Dual-Backplanes

Thanks to PlusIO, hybrid backplanes allow concurrent usage of CPCI Classic cards and CPCI Serial boards. Hybrid backplanes are available with an empty slot for 8HP PlusIO CPU board & mezzanine side card assembly.

Sample Hybrid Backplanes CompactPCI® Classic & CompactPCI® Serial

The CompactPCI® PlusIO system slot is located in the middle.
CompactPCI® Classic & CompactPCI® Serial Dual-Systems

Hybrid systems allow concurrent usage of CPCI Classic cards and CPCI Serial boards

The CompactPCI® PlusIO system slot is located in the middle
boards.  systems.  solutions.