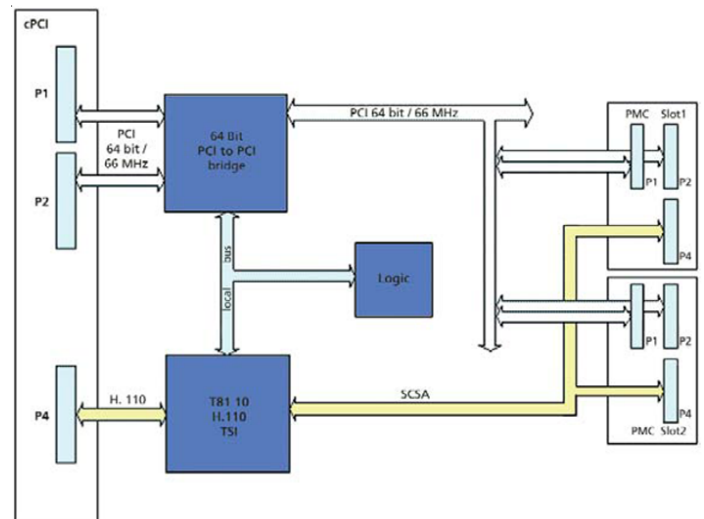


Overview:

The **VRM-CPCI-PMC** is a carrier board for PMC's in 6U CompactPCI form factor. Unlike the traditional PMC carriers, the **VRM-CPCI-PMC** is well suited for running in telecommunication platforms. The board offers the H.110 bus (PICMG2.15) allowing TDM data from and to the two PMC sites to be distributed among different peripheral boards, such as line interfaces and DSP processing boards, using this standardized bus. Due to the fact that the power consumption of PPMCs is higher than traditional PMCs, the **VRM-CPCI-PMC** incorporates a special power supply circuitry and is able to support PPMC modules with power consumption up to 30W in total for both slots.

Using the Intel i21555 PCI-to-PCI Bridge, the **VRM-CPCI-PMC** is a 64bit/66MHz PCI rev 2.2 compatible hot swap (PICMG 2.12) cPCI carrier for any kind of PMC module. It offers two PCI Rev 2.2, P1386.1/Draft 2.4a compatible 32 bit/33Mhz PMC extension slots for use with any standard PMC module. The **VRM-CPCI-PMC** complies with PICMG 2.5 (H.110) by incorporating the Agere T8110 TSI device. The I/O connectors (P14) of the two PMC slots are connected to H.110 controller and allow PMC modules having the SCbus to directly connect to the system's TDM backplane bus on the CPCI J4 connector. Any timeslot switching between the H.110 bus and the local SCSA busses is possible. The hot swap capability of the **VRM-CPCI-PMC** according to PICMG 2.1 R2.0 complies to "Full Hot Swap". PCI signals are precharged to 1V during board insertion. Because of its special power supply circuitry, the **VRM-CPCI-PMC** supports PMC modules with a power consumption of up to 30W in total, such as PPMC modules.



Features:

- **PCI Interface:** Intel i21555 PCI-to-PCI bridge (66MHz, 64bit), PCI Rev 2.2
- **H.110 Bus:** Agere T8110 TSI, H.110 on cPCI J4 connector, SCbus on PMC P14 connector
- **PMC Slots:** Two 64-bit/66MHz PCI Rev 2.2. IEEE P1386.1/Draft 2.4a compliant PMC slots on the PCI Internal bus, I/O P14 connector used as SCSA bus connected to the T8110TSI H.110 device.
- **Hot Swap Capability:** Full Hot Swap
- **Power Consumption:** 3.3V 0.5A (typ.) 5V 0.1A (typ.) The 3.3V supply for PMCs is derived from the 5V supply by onboard switching regulator
- **Environmental:** Temperature (operating): 0°C to +60°C with forced air cooling
Temperature (storage): -40°C to +85°C
Relative Humidity: 10% to 95% at +55°C (non-condensing)

* **Standard Compliance:** PCI Rev 2.2. PICMG2.1 R2.0 PICMG 2.5 R1.0 IEEE P1386.1/Draft 2.4a