Known Difference Between AcPC8625 and the AcPC8625A

The AcPC8625A has been designed as a drop-in replacement to the AcPC8625. The following are the known differences between the AcPC8625 and AcPC8625A. With the exception of movement to compatibility with PCI bus 2.2 and its requirement for 3.3 volt power, our testing indicates that the new AcPC8625A should work in all current customers' applications.

PCI bus Compliance

The AcPC8625 was originally designed to meet or exceed PCI Specification Version 2.1 and PICMG 2.0, R2.1 Compliant Slave Carrier. The newly released AcPC8625A has been upgraded to PCI Specification Version 2.2 and PICMG 2.1, R2.0 Compliant Slave Carrier. This assures compatibility with the latest CompactPCI bus backplanes, including those with 3.3V or 5V compliant signaling.

This change now requires that a 3.3 volt power supply be provided on the backplane. This is the norm for most modern CompactPCI-based systems. The original AcPC8625 only required a +5 volt and ±12 volt supply. The new AcPC8625A will require +3.3 volt (225 mA) as well as a +5 volt and ±12 volt supply.

Enhanced Features

➤ 8 and 32 MHz Industry Pack compliant

The AcPC8625A is compliant with both 8 MHz and 32 MHz Industry Pack (IP) modules. Per Industry Pack specification, the AcPC8625A will power up with all IP operating at 8MHz. A previously unused register (PCIBar2+0018) will now allow the user to select on an IP by IP basis to communicate to the IP in either 8 MHZ or 32 MHz mode. Please note, to operate at 32 Mhz mode the IP module must also be compatible with 32 MHz operation.

➤ Industry Pack Memory Space Compliant

The AcPC8625A is compliant with the Industry Pack Memory Space option. This allows each IP module to support up to 8M bytes of memory. To ensure compatibility with the original AcPC8625, this is a jumper selectable option. The factory default placement of the jumper selects the no memory space support option. This will auto-configure the carrier's base address for a 1K byte block of memory. If the memory jumper is selected the system auto-configures the carrier's base address for an additional 64M byte block of memory.