

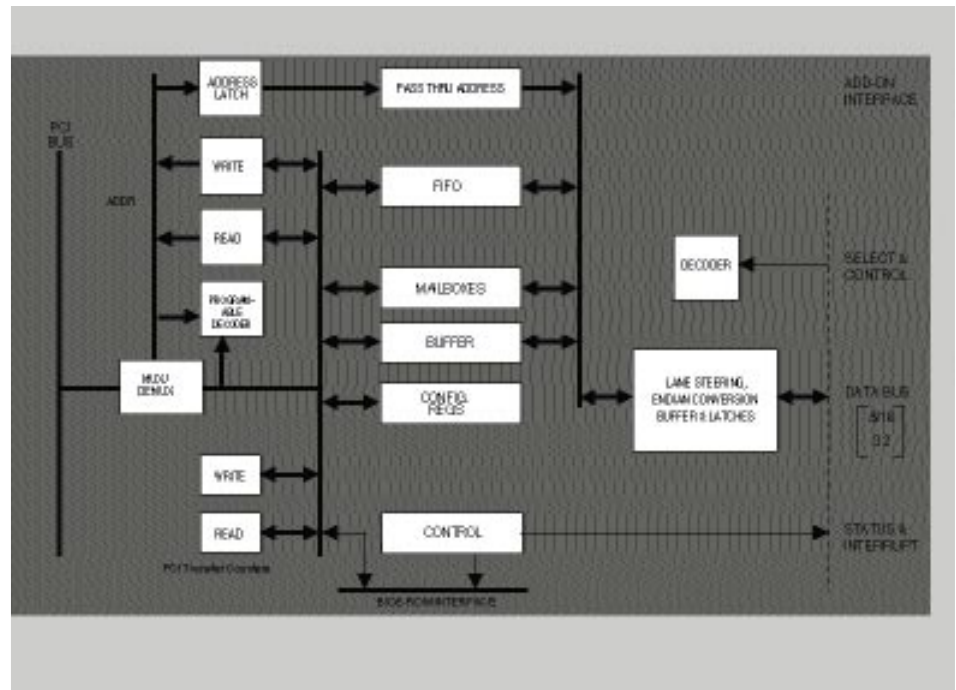
S593X PCI Matchmaker Controllers

- Single-Chip PCI-BUS Master/Slave For Add-On Products
- 8, 16, or 32-Bit Width
- BIOS Interface Allows Customizing
- Low-Cost, Fast Time-to-Market Path For Add-On Card Vendors to Get onto the PCI-BUS
- Three Interface Modes—FIFO, Mailbox, and Pass-Through
- Users Can Piggy Back on AMCC's PCI Vendor ID Number For "Plug and Play" Board Implementation Capability

AMCC's PCI Local Bus Master/Slave Controller Interface provides a high performance single-chip solution between the PCI local bus standard and custom add-on boards. Address decoding, address sourcing, burst transfers, and all elements necessary to perform efficient and timely data transfers are provided within the device. Included within is a bidirectional 32-bit wide FIFO which facilitates the system-to-system synchronization and data transfers between the local bus and the add-on product. A custom BIOS EPROM can be used to perform any pre-boot initialization required of the add-on function. The external ROM/EPROM/NVRAM can be either in by eight or serial form and provides a convenient method to customize an add-on board.

This component is designed to permit the direct connection between the PCI local bus and a variety of general purpose microprocessor style buses. Bus Master transfers can be performed on the PCI local bus while accesses occur on the add-on's processor bus. Transfer parameters, such as the PCI address, transfer counts, mailbox registers, and status are provided in the PCI interface controller as I/O mapped locations on the PCI bus.

The PCI Local Bus Master/Slave Controller consists of three signal groupings: the local bus signals, the EPROM interface, and the add-on general purpose bus signals.



The PCI controllers provide for a high performance, highly integrated, and easy-to-use method to interface an embedded microprocessor subsystem with the PCI local bus.

PROCESSORS SUPPORTED:
i960® Processor Family

AVAILABILITY
Sample and production quantities of S5933 are currently available. Sample and production quantities of the S5930/31/32 will be available in the fourth quarter 1995.

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