



Application-Specific VME Solutions

Inicore Inc. offers various VME slave controllers, all designed for system-on-chip integrations. They are predefined and verified, ready for an easy integration and giving you the flexibility to optimize your standard-based functionality, setting your design apart from the competition.

Designed to the VMEbus specification IEEE 1014-87 and ANSI/VITA 1-94, each module comes with features specific to your application needs. The modules provide an easy to use, synchronous parallel interface towards custom logic (user side), including full interrupt support. To guarantee proper VMEbus timing, a clock of 40 MHz or higher is required. Application specific functions are add-ons; they don't influence the main core and therefore its function is always guaranteed.

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Basic Features:

- ◆ Slave controller with synchronous user side interface
- ◆ Minimum 40 MHz system clock required to guarantee VME timing
- ◆ ROAK interrupter
- ◆ User selectable wait states
- ◆ Control signals for external drivers and on-chip drivers

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Cores and Options: □A16 □A24 □A32 □ D8 □ D16 □D32 □D64 □BLT □MBLT □RMW □ROAK □RORADTACK

	□	□	□	□	□	□	□	□	□	□	□	□	□	□
													Interrupter	resc.
iniVME Slave Controller	x	x	□	x	x	□	□	□	□	□	□	□	x	
VME A24-D32	□	x	x	□	x	x	□	x	□	x	□	x	x	
VME A32-D32	□	x	x	x	x	x	□	x	□	x	□	x	x	x
VME 64	□	x	x	x	x	x	x	x	x	x	x	x	x	x

The advanced VME controllers all support D8/D16/D32 interrupters. Other options and combinations are available upon user request.

Inicore's Intellectual Property (IP) cores are based on a structured design methodology and written in technology independent, synchronous VHDL. Designed for ease-of-use and target for system level integration, easyCORE™ is your vehicle to achieve the time-to-market goals.

Application and Silicon Proven

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Since we launched the VME slave controller core in 1995, it has been deployed in applications such as aerospace, automation, industrial computing and controlling systems. It has been used in various FPGA and ASIC technologies, and therefore proven its compliancy to the VMEbus specifications.