



EconoROM III

Economical EPROM Emulator for micro-controller program development.

ER3 will speed up your firmware development by eliminating the need to remove-erase-program and re-install EPROMs each time you test a code change. These devices plug into the EPROM socket on your target board and emulate the EPROM throughout the development process.



Capacity	Speed	Model#
256Kbit/ 32K x 8	45ns	ER3-256
512Kbit/ 64K x 8	45ns	ER3-512
1Mbit/ 128K x 8	45ns	ER3-1M
4Mbit/ 512K x 8	45ns	ER3-4M
8Mbit/ 1M x 8	45ns	ER3-8M

- Read-back, Verify and Self-test functions
- All sizes and speeds can be Daisy-chained together
- Daisy-chain cable included
- Mini-clip cable included for Reset connection
- LPT cable included
- Target cable(s) included
- Includes 2 versions of software: 16 bit DOS version & 32 bit Win9X/NT/2000 version
- Full-screen editor and QuickLoader included
- Batchable loader & utilities included
- Accepts Intel HEX, Tektronix HEX, Motorola 'S' records and binary files
- Free software updates via WEB downloads

- Integrated Low-Voltage Support
- Target Voltage Sense & Measurement
- External Power Option
- Jumper-less Address Configuration
- Up to 8Mbit Emulation in a single unit
- Faster Downloads (up to 2.5 Mbit per second)
- Smaller Package Size
- Replaces standard EPROM device during development
- Emulates up to 45ns devices
- Connects to any Parallel Port
- Auto/Manual Target Reset on download

FlexRom III



In-Circuit Flash, EPROM and Static RAM Emulator

FlexROM III increases productivity by downloading firmware code or data into the emulator at 2.5 Mbits per second. Set an Address Trigger, measure the Target's voltage level and see the Target's address fetches with FR3's Hardware Instrumentation. Adapt easily to new target technologies with FR3's Active Cables.

Active Cable Module (ACM)	
Module	Description
ACM-8	8 bit interface with DIP28 and DIP32 cable
ACM-16	16 bit interface with DIP40 cable.
ACM-2x8	Dual 8 bit interface with (2) DIP28 and (2) DIP32 cables
ACM-C	Custom interface with (2) 50 pin cables (2mm, interspersed grounds, IDC connector on both ends).

Model#	Size	Organization	Speed
FR3-1M	1 Mbit	128Kx8/64Kx16	45ns
FR3-4M	4 Mbit	512Kx8/256Kx16	45ns
FR3-8M	8 Mbit	1Mx8/512Kx16	45ns
FR3-16M	16 Mbit	2Mx8/1Mx16	45ns
FR3-32M	32 Mbit	4Mx8/2Mx16	45ns
FR3-64M	64 Mbit	8Mx8/4Mx16	45ns
FR3-128M	128 Mbit	16Mx8/8Mx16	45ns
FR3-256M	256 Mbit	32Mx8/16Mx16	45ns

- **Active Cable Modules (ACM™) combine the target ELECTRICAL and PHYSICAL interfaces into a low cost, replaceable assembly:** By simply changing the Active Cable Module, you can reconfigure your FlexROM III to emulate different device configurations, packages or voltage levels. This approach allows you to support multiple target configurations with a single emulator, reducing your initial investment. In addition, your tool investment is preserved.
- Hardware Instrumentation
 - Target Voltage Measurement
 - Address Snap-Shot Circuit
 - Address Match & Trigger Circuit
- External Power Option. Reverse Voltage Protection
- Adjustable Timing Parameters
- Integrated Low-Voltage Support
- Jumper-less Address Configuration
- Up to 256Mbit/32MByte Emulation in a single unit
- Replaces standard EPROM, FLASH or SRAM device during development

- Emulates up to 45ns devices
- TARGET and HOST random access Read/Write capability
- Auto/Manual Target Reset on download
- Read-back, Verify and Self-test functions
- Connects to any Parallel Port. Cable included. Up to 2.5Mbit/s downloads
- All sizes and speeds can be Daisy-chained together
- Mini-clip cable included for Reset connection
- Target cable(s) and daisy-chain cable included
- Includes software for 16 bit DOS & 32 bit Win9X/NT/2000
- QuickLoader with Full-screen editor and batchable loader included
- Accepts Intel HEX, Tektronix HEX, Motorola 'S' records and binary files
- Free software updates via WEB downloads