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[RPM Systems Corp](#)  
[MPQ-Z8](#)

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## MPQ-Z8

### Four Port In-System Programmer for ZiLOG Z8-Encore!<sup>TM</sup> Zneo and Crimzon Microcontrollers

The MPQ-Z8 is a member of RPM's family of dedicated in-system device programmers. Like all MPQ's, it is designed to be reliable, efficient, flexible and cost effective - all of the features you require in a manufacturing programmer.

#### Fast and Portable

Up to four different target images can be stored in the programmer's internal Flash memory, allowing faster programming times and standalone operation. In addition, our adaptive programming algorithm provides the fastest programming time for each image, while ensuring the image integrity of each device programmed.

#### Program Four Devices Simultaneously

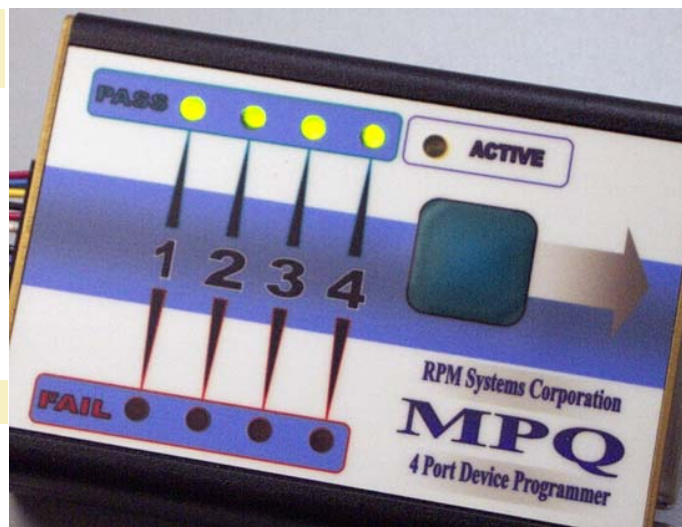
Four port programming allows each MPQ to program the same image on up to four separate target devices simultaneously, increasing manufacturing throughput fourfold.

#### Stand-alone, ATE-Controlled or PC-Controlled

MPQ-Z8 can be operated stand-alone (just press a button to initiate programming), directly from a host PC using MPManger software, or under the control of your Automated Test Equipment (ATE) system.

#### Full Range of Voltage and Frequency Support

MPQ-Z8 is compatible with the full Z8-Encore! range of power supply voltages, from 2.7 to 3.6V, and operates with any supported target system clock frequency from 32KHz to 20MHz.



#### Rugged and Ready for Manufacturing World Wide

Features like an extruded aluminum chassis, universal power supply and extensive electrical protection ensure that MPQ-Z8 will be at home in any manufacturing environment.

#### Powerful Software - Field Upgradable

MPQ-Z8 comes complete with MPManger software to provide programmer configuration and image management, PC-controlled device programming, and more. MPManger also provides the ability to upgrade your MPQ-Z8 programmer on site as support for new devices is released by RPM.

#### Secure Image Management

Secure your programming images, preventing them from being read back from the programmer, and define a maximum number of parts to be programmed from each image. Send your MPQ to CM's anywhere in the world without worry.

#### Autoserialization

MPQ-Z8 supports on-the-fly image modification, allowing each device to be programmed with a unique serial number, MAC address, IP address, etc.

# MPQ-Z8 In-System Programmer

## Full Memory Programming Speeds for Selected Devices

Verify Method	Z8F042A (4Kb - 8MHz)	Z8F0822 (8Kb - 18MHz)	Z8F6423A (64Kb - 18MHz)
Program / CRC Verify	2.0 Seconds	2.5 Seconds	13.5 Seconds
Program / Read Verify	2.5 Seconds	3.5 Seconds	21.0 Seconds

Times shown are to erase, program and verify four devices using maximum size program images for each device.

## Supported Devices

**Encore, XP:** Z8F0113, Z8F0123, Z8F0130, Z8F0131, Z8F0213, Z8F0223, Z8F0230, Z8F0231, Z8F011A, Z8F012A, Z8F021A, Z8F022A, Z8F041A, Z8F042A, Z8F043A, Z8F081A, Z8F082A, Z8F083A, Z8F0411, Z8F0412, Z8F0413, Z8F0421, Z8F0422, Z8F0423, Z8F0430, Z8F0431, Z8F0480, Z8F0481, Z8F0811, Z8F0812, Z8F0813, Z8F0821, Z8F0822, Z8F0823, Z8F0830, Z8F0831, ZF0880, Z8F0881, Z8F1232, Z8F1233

Z8F1601, Z8F1602, Z8F1621, Z8F1622, Z8F1680, Z8F1681, Z8F2401, Z8F2402, Z8F2421, Z8F2422, Z8F2480, Z8F2481, Z8F3201, Z8F3202, Z8F3221, Z8F3222, Z8F3223, Z8F4801, Z8F4802, Z8F4803, Z8F4821, Z8F4822, Z8F4823, Z8F6401, Z8F6402, Z8F6403, Z8F6421, Z8F6422, Z8F6423

**FMC Series:** Z8FMC04100, Z8FMC08100, Z8FMC16100

**Crimzon:** ZLF645S0H2064G, ZLF645S0H2864G, ZLF645S0H4864G, ZLF645S0P2064G, ZLF645S0P2864G, ZLF645S0P4864G, ZLF645S0S2064G, ZLF645S0S2864G, ZLF645S0S4864G, ZLF645SE0H2064G, ZLF645E0H2864G, ZLF645E0H4864G, ZLF645E0P2064G, ZLF645E0P2864G, ZLF645E0P4864G, ZLF645E0S2064G, ZLF645E0S2864G, ZLF645S0H2064G, ZLF645S0H2864G, ZLF645S0H4864G, ZLF645S0P2064G, ZLF645S0P2864G, ZLF645S0P4864G, ZLF645S0S2064G, ZLF645S0S2864G, ZLF645SE0H2064G, ZLF645E0H2864G, ZLF645E0H4864G, ZLF645E0P2064G, ZLF645E0P2864G, ZLF645E0P4864G, ZLF645E0S2064G, ZLF645E0S2864G

**Zneo:** Z16F2810, Z16F2811, Z16F3211, Z16F4611

## Specifications

Target Voltage Range:	2.70 to 3.6VDC
Target Frequency Range :	32KHz to 20MHz
Power Supply:	100 to 240VAC, 50/60Hz **
Operating Temperature Range:	0°C to +65°C

## Software Support

RPM Systems **MPManager** Software

- Programmer Image Management
- Programmer Configuration
- PC-Controlled Programming
- Windows™ 98, NT, 2000, XP, 7

\*\* MPQ-PS Power Supply included with MPQ-Z8

MPQ Programmers are also available for these popular microcontroller families:

- Atmel AVR, AVR32
- ARM
- Cypress PSoC/3/5, enCoRe II/III/V
- Silicon Labs C8051