Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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MPQ-E2

Four Port In-System Programmer
for
Cypress enCoRe™ II

The MPQ-E2 adds support for Cypress's enCoRe II USB microcontrollers to 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.
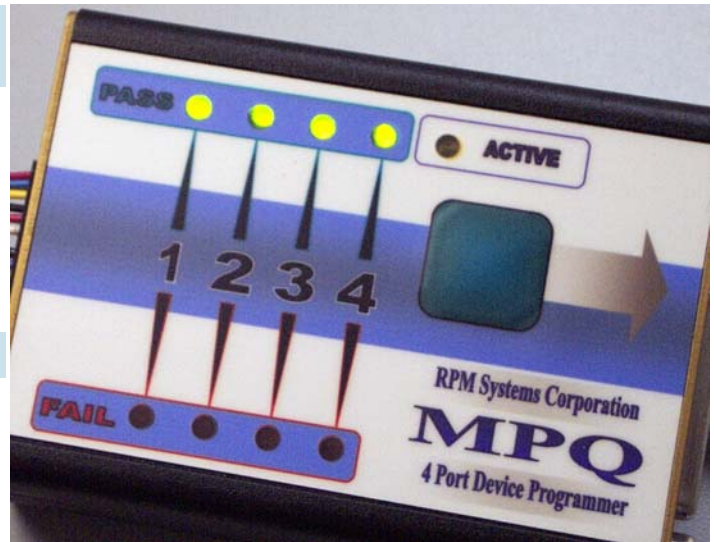
Program Four Devices Simultaneously

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-E2 can be operated stand-alone (just press a button to initiate programming), directly from a host PC using MPManager software, or under the control of your Automated Test Equipment (ATE) system.

Full Range of Voltage Support

MPQ-E2 is compatible with the full range of power supply voltages supported by Cypress enCoRe II devices, from 4.40 to 5.0V.

Rugged and Ready for Manufacturing World Wide

Features like an extruded aluminum chassis, universal power supply and extensive electrical protection ensure that MPQ-E2 will be at home in any manufacturing environment.

Powerful Software - Field Upgradable

MPQ-E2 comes complete with MPManager software to provide programmer configuration and image management, PC-controlled device programming, and more. MPManager also provides the ability to upgrade your MPQ-E2 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.

NEW!   Autoserialization

MPQ-E2 supports on-the-fly image modification, allowing each device to be programmed with a unique serial number, MAC address, IP address, etc.

MPQ-E2 In-System Programmer

Full Memory Programming Speeds for Selected Devices

Verify Method	CY7C63310 (3 Kb)	CY7C63923 (8 Kb)
Program / Checksum Verify	3.2 Seconds	4.6 Seconds
Program / Read Verify	3.4 Seconds	4.8 Seconds

5.0V Vcc. Times shown are typical times to erase, program and verify four devices using maximum size program images for each device.

Supported Devices

CY7C60113, CY7C60123, CY7C60223, CY7C60323, CY7C60333

CY7C63310, CY7C63801, CY7C63803, CY7C63813, CY7C63823, CY7C63833

CY7C63903, CY7C63913, CY7C63923

CYRF69103, CYRF69213

Specifications

Target Voltage Range:	2.7 to 5.0VDC
Target Frequency Range :	<not applicable>
Power Supply:	100 to 240VAC, 50/60Hz **
Operating Temperature Range:	0°C to +65°C

Software Support

RPM Systems *MPManager* Software

• Progammer Image Management

• Programmer Configuration

• PC-Controlled Programming

• Windows™ 98, NT, 2000, XP

** MPQ-PS Power Supply included with MPQ-E2