



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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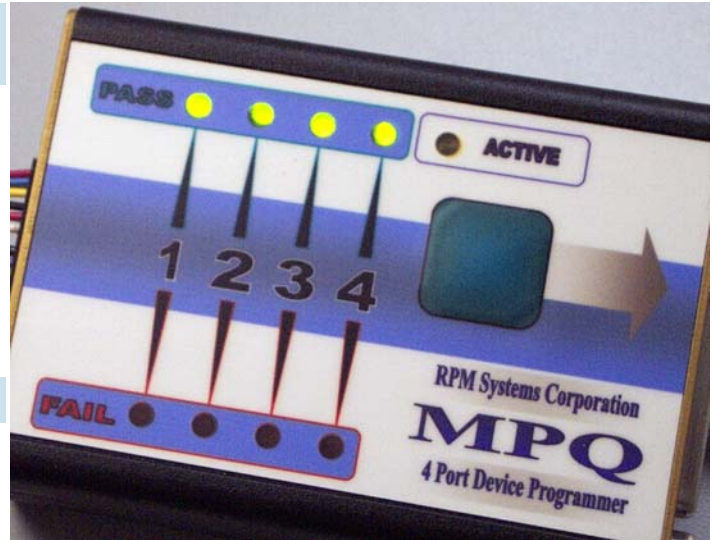
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MPQ-PSoC

Four Port In-System Programmer for Cypress PSoC/3/5 and enCoRe II/III/V



The MPQ-PSoC is a 4-port, in-circuit manufacturing programmer for Cypress Semiconductor PSoC, PSoC3, CapSense Express, enCoRe II, enCoRe III, enCoRe V and Ovation ONS microcontrollers.

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-PSoC 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-PSoC is compatible with the full range of power supply voltages supported by Cypress PSoC devices, from 1.7 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-PSoC will be at home in any manufacturing environment.

Powerful Software - Field Upgradable

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

MPQ-PSoC In-System Programmer

Full Memory Programming Speeds for Selected Devices

Verify Method	CY8C26233 (8 Kb)	CY8C27443 (16 Kb)
Program / Checksum Verify	4.4 Seconds	6.7 Seconds
Program / Read Verify	4.6 Seconds	7.5 Seconds

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

Specifications

Target Voltage Range:	1.70 to 5.0VDC
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, Win7

MPQ Programmers are also available for these popular micro-controller families:

- Atmel AVR
- Atmel AVR32
- Silicon Labs C8051F series
- Zilog Z8 and ZNeo

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

Supported Devices

PSoC

CY8C20045-24LKXI, CY8C20055-24SXI, CY8C20055-24LKXI, CY8C20224-12LKXI, CY8C20234, CY8C20236A-24LKXI, CY8C20246A-24LKXI, CY8C20266A-24LKXI, CY8C20296A-24LKXI, CY8C20324-12LQXI, CY8C20334, CY8C20336A-24LQXI, CY8C20346A-24LQXI, CY8C20366A-24LQXI, CY8C20396A-24LQXI, CY8C20424-12LKXI, CY8C20434, CY8C20436A-24LQXI, CY8C20446A-24LQXI, CY8C20466A-24LQXI, CY8C20496A-24LQXI, CY8C20524-12PVXI, CY8C20534, CY8C20536A-24PVXI, CY8C20546A-24PVXI, CY8C20566A-24PVXI, CY8C20634, CY8C20636A-24LTXI, CY8C20646A-24LTXI, CY8C20666A-24LTXI, CY8C20746A-24FDXC, CY8C20766A-24FDXC, CY8C210011, CY8C21123, CY8C21223, CY8C21323, CY8C21234, CY8C21334, CY8C21345, CY8C21434, CY8C21534, CY8C21634, CY8C22113, CY8C22213, CY8C22045, CY8C22345, CY8C22545, CY8C23033-24LFXI, CY8C23433-24PVXI, CY8C23533-24LFXI, CY8C24033A, CY8C24094, CY8C24123, CY8C24123A, CY8C24223, CY8C24223A, CY8C24423, CY8C24423A, CY8C24533A, CY8C24633A, CY8C24794, CY8C24894, CY8C24994, CY8C25122, CY8C26233, CY8C26443, CY8C26643, CY8C270021, CY8C27143, CY8C27243, CY8C27443, CY8C27543, CY8C27643, CY8C28000-24PVXI, CY8C28243-24PVXI, CY8C28403-24PVXI, CY8C28413-24PVXI, CY8C28433-24PVXI, CY8C28445, CY8C28513-24AXI, CY8C28533-24AXI, CY8C28452-24PVXI, CY8C28545-24AXI, CY8C28623-24LFXI, CY8C28643-24LFXI, CY8C28645-24LFXI, CY8C29466, CY8C29566, CY8C29666, CY8C29866, CY8C21001, CY8C21002, CY8C24000, CY8C24000A, CY8C27002, CY8C29000, CY8C290001, CY8C41000, CY8C41123, CY8C41223, CY8C42000, CY8C42123, CY8C42223, CY8C42323, CY8C42423, CG6457AM, CG6462AM, CY8CLED01D01-56LTXI, CY8CLED02-8SXI, CY8CLED02-16SXI, CY8CLED02-24LFXI, CY8CLED02D01-56LTXI, CY8CLED03D01-56LTXI, CY8CLED03D02-56LTXI, CY8CLED03G01-56LTXI, CY8CLED04-68, CY8CLED04D01-56LTXI, CY8CLED04D02-56LTXI, CY8CLED04DOCD1-56LTXI, CY8CLED04G01-56LTXI, CY8CLED08-OCD, CY8CLED08-28PVXI, CY8CLED08-48LF/PVXI, CY8CLED16-28, CY8CLED16-48, CY8CLED16P01-28PVXI, CY8CLED16P01-48LFXI, CY8CLED16P01-OCD, CY8CMBR2044-24LKXI, CY8CNP102B, CY8CNP102E, CY8CPLC20-28PVXI, CY8CPLC20-48LFXI, CY8CPLC20-OCD, CY8CTMG100-00LFXI, CY8CTMG100-32LKXI, CY8CTMG110-00LFXI, CY8CTMG110-32LTXI, CY8CTST100-00LFXI, CY8CTST100-32LKXI, CY8CTST110-00PVXI, CY8CTST110-32LTXI, CY8CTST120-56LFXI, CY8CTST120-00PVXI, CY8CTST200A-16LGXI, CY8CTST200A-24LQXI, CY8CTST200A-32LQXI, CY8CTST200A-48LTXI, CY8CTST200A-48PVXI, CY8CTMG120-56LFXI, CY8CTMG120-00AXI, CY8CTMG200A-00LTXI, CY8CTMG200A-16LGXI, CY8CTMG200A-24LQXI, CY8CTMG200A-32LQXI, CY8CTMG200A-48LTXI, CY8CTMG200A-48PVXI, CY8CTMG201-32LQXI, CY8CTMG201A-48LTXI, CY8CTMG201A-48PVXI, CY8CTMA120-56LFXI, CY8CTMA120-00AXI, CY8CTMA300-36LQXI, CY8CTMA300-48LTXI, CY8CTMA300-49FNXI, CY8CTMA300B-36LQXI, CY8CTMA300D-36LQXI, CY8CTMA300D-48LTXI, CY8CTMA300D-48FNXIT, CY8CTMA300E-36LQXI, CY8CTMA300E-48LTXI, CY8CTMA300E-49FNXIT, CY8CTMA301D-36LQXI, CY8CTMA301D-48LTXI, CY8CTMA301E-36LQXI, CY8CTMA301E-48LTXI, CY8CTMA140-LQI-01T, CY8CTMA340H-LQI-17, CY8CTMA340H-LTI-17, CY8CTMA340H-FNI-17, CY8CTMA340-LQI-13, CY8CTMA340-LTI-13, CY8CTMA340-FNI-13, CY8CTMA340-LQI-11, CY8CTMA340-LTI-11, CY8CTMA340-FNI-11, CY8CTMA340-LQI-09, CY8CTMA340-LTI-09, CY8CTMA340-FNI-09, CY8CTMA340-LQI-05, CY8CTMA340-LTI-05, CY8CTMA340-FNI-05, CY8CTMA340-LQI-03, CY8CTMA340-LTI-03, CY8CTMA340-FNI-03, CY8CTMA340-LQI-01, CY8CTMA340-LTI-01, CY8CTMA340-FNI-01, CY8CTST341-LQI-01, CY8CTST341-LTI-01, CY8CTST341-FNI-01, CY8CTMA350-FNI-01, CY8CTMA350-LTI-01, CY8CTMA350-LQI-01, CY8CTMA350-FNI-03, CY8CTMA350-LTI-03, CY8CTMA350-LQI-03, CY8CTMA350H-FNI-07, CY8CTMA350H-LTI-07, CY8CTMA350H-LQI-07

OvationONS

CYONS2001, CYONS2100, CYONS2101, CYONS2110

Encore V

CY7C60413-16LKXC, CY7C60445-32LQXC, CY7C60455-48LTXC, CY7C60456-48LTXC, CY7C64300-48LTXC, CY7C64315-16LKXC, CY7C64316-16LKXC, CY7C64343-32LQXC, CY7C64345-32LQXC, CY7C64355-48LTXC, CY7C64356-48LTXC

MPQ-PSoC In-System Programmer

Supported Devices (cont'd).

enCoRe II

CY7C60123PXC, CY7C60123PVXC, CY7C63310, CY7C63310-XC, CY7C63801, CY7C63803, CY7C63813, CY7C63823, CY7C63823-XC, CY7C63833, CY7C63903, CY7C63913, CY7C63923, CY7C63923-XC, CYRF69103, CYRF69213

enCoRe III

CY7C60323LFXC, CY7C60323PVXC, CY7C60333LFXC, CY7C64215-28, CY7C64215-56

PSoC3

CY8C3665LTI-002, CY8C3665PVI-003, CY8C3665LTI-004, CY8C3866PVI-005, CY8C3665LTI-006, CY8C3665PVI-007, CY8C3665PVI-008, CY8C3665LTI-009, CY8C3665AXI-010, CY8C3666LTI-011, CY8C3666LTI-012, CY8C3665AXI-013, CY8C3865LTI-014, CY8C3865AXI-015, CY8C3665AXI-016, CY8C3665AXI-017, CY8C3865AXI-018, CY8C3865AXI-019, CY8C3866LTI-020, CY8C3866PVI-021, CY8C3666PVI-022, CY8C3866LTI-023, CY8C3865LTI-024, CY8C3666LTI-025, CY8C3666PVI-026, CY8C3666LTI-027, CY8C3666LTI-028, CY8C3866LTI-029, CY8C3866LTI-030, CY8C3666AXI-031, CY8C3865LTI-032, CY8C3866AXI-033, CY8C3666AXI-034, CY8C3866AXI-035, CY8C3666AXI-036, CY8C3666AXI-037, CY8C3866AXI-038, CY8C3866AXI-039, CY8C3866AXI-040, CY8C3666PVI-041, CY8C3666LTI-042, CY8C3665LTI-043, CY8C3665LTI-044, CY8C3865LTI-045, CY8C3666LTI-046, CY8C3866PVI-047, CY8C3665LTI-048, CY8C3665PVI-049, CY8C3666LTI-050, CY8C3865PVI-051, CY8C3666AXI-052, CY8C3865PVI-053, CY8C3866AXI-054, CY8C3866AXI-055, CY8C3865AXI-056, CY8C3666PVI-057, CY8C3865LTI-058, CY8C3865LTI-059, CY8C3865PVI-060, CY8C3865LTI-061, CY8C3865LTI-062, CY8C3865PVI-063, CY8C3866LTI-064, CY8C3866LTI-065, CY8C3866PVI-066, CY8C3866LTI-067, CY8C3866LTI-068, CY8C3866PVI-069, CY8C3866PVI-070, CY8C3446LTI-071, CY8C3446LTI-072, CY8C3446LTI-073, CY8C3446LTI-074, CY8C3446LTI-075, CY8C3446PVI-076, CY8C3445PVI-077, CY8C3445LTI-078, CY8C3445LTI-079, CY8C3665PVI-080, CY8C3445LTI-081, CY8C3446PVI-082, CY8C3446LTI-083, CY8C3446LTI-084, CY8C3446LTI-085, CY8C3445LTI-086, CY8C3445LTI-087, CY8C3445PVI-088, CY8C3445LTI-089, CY8C3445PVI-090, CY8C3446PVI-091, CY8C3446PVI-092, CY8C3445LTI-093, CY8C3445PVI-094, CY8C3445LTI-095, CY8C3444AXI-096, CY8C3445AXI-097, CY8C3446AXI-098, CY8C3446AXI-099, CY8C3444PVI-100, CY8C3444PVI-101, CY8C3446PVI-102, CY8C3444PVI-103, CY8C3445AXI-104, CY8C3446AXI-105, CY8C3444AXI-106, CY8C3445AXI-107, CY8C3445AXI-108, CY8C3444LTI-109, CY8C3444LTI-110, CY8C3444LTI-111, CY8C3444LTI-112, CY8C3444LTI-113, CY8C3444LTI-114, CY8C3446AXI-115, CY8C3444AXI-116, CY8C3444AXI-117, CY8C3444PVI-118, CY8C3444LTI-119, CY8C3444LTI-120, CY8C3246LTI-121, CY8C3246PVI-122, CY8C3244LTI-123, CY8C3245LTI-124, CY8C3246LTI-125, CY8C3244PVI-126, CY8C3244LTI-127, CY8C3246LTI-128, CY8C3245LTI-129, CY8C3244LTI-130, CY8C3246AXI-131, CY8C3246PVI-132, CY8C3244PVI-133, CY8C3245PVI-134, CY8C3244LTI-135, CY8C3246LTI-136, CY8C3246AXI-137, CY8C3246AXI-138, CY8C3245LTI-139, CY8C3246AXI-140, CY8C3246PVI-141, CY8C3245LTI-142, CY8C3244AXI-143, CY8C3245LTI-144, CY8C3246LTI-145, CY8C3244AXI-146, CY8C3246PVI-147, CY8C3245AXI-148, CY8C3246LTI-149, CY8C3245PVI-150, CY8C3244LTI-151, CY8C3244LTI-152, CY8C3244AXI-153, CY8C3245AXI-154, CY8C3244PVI-155, CY8C3246LTI-156, CY8C3245PVI-157, CY8C3245AXI-158, CY8C3244AXI-159, CY8C3245LTI-160, CY8C3244LTI-161, CY8C3246LTI-162, CY8C3245LTI-163, CY8C3245LTI-164, CY8C3244PVI-165, CY8C3245AXI-166, CY8C3245PVI-167, CY8C3244LTI-168, CY8CTMA395LTI-00, CY8CTMA395LTI-01, CY8CTMA616LTI, CY8CTMA884AI, CY8CTMA884LTI CY8C3245PVI-157, CY8C3245AXI-158, CY8C3244AXI-159, CY8C3245LTI-160, CY8C3244LTI-161 CY8C3246LTI-162, CY8C3245LTI-163, CY8C3245LTI-164, CY8C3244PVI-165, CY8C3245AXI-166, CY8C3245PVI-167, CY8C3244LTI-168, CY8CTMA395LTI-00, CY8CTMA395LTI-01,

(PSoC3 continued on next page)

Supported Devices (cont'd).

PSoC3 (cont'd)

CY8CTMA616LTI, CY8CTMA616AA-12, CY8CTMA616AE-12, CY8CTMA616AA-13, CY8CTMA616AA-13ES, CY8CTMA616AE-13, CY8CTMA616AE-13ES, CY8CTMA616AA-22, CY8CTMA616AE-22, CY8CTMA616AA-23, CY8CTMA616AA-23ES, CY8CTMA616AE-23, CY8CTMA884AI, CY8CTMA884LTI, CY8CTMA884AA-12, CY8CTMA884AE-12, CY8CTMA884AA-13, CY8CTMA884AA-13ES, CY8CTMA884AE-13, CY8CTMA884AE-13ES, CY8CTMA884AA-22, CY8CTMA884AE-22, CY8CTMA884AA-23, CY8CTMA884AA-23ES, CY8CTMA884AE-23

PSoC5

CY8C5248LTI-030, CY8C5248AXI-047, CY8C5247LTI-089, CY8C5247AXI-051, CY8C5246LTI-029, CY8C5246AXI-054, CY8C5368LTI-026, CY8C5368AXI-106, CY8C5367LTI-003, CY8C5367AXI-108, CY8C5366LTI-053, CY8C5366AXI-001, CY8C5365LTI-104, CY8C5365AXI-043, CY8C5468AXI-018, CY8C5468LTI-037, CY8C5467AXI-011, CY8C5467LTI-007, CY8C5466AXI-064, CY8C5466LTI-063, CY8C5568AXI-060, CY8C5568LTI-114, CY8C5567AXI-019, CY8C5567LTI-079, CY8C5566AXI-061, CY8C5566LTI-017