



CY3500

Impulse3™ Device Programmer and Adapters

Features

- OEM version of Data I/O ChipLab™
- Programs all Cypress PROMs, EPROMs, PLDs, CPLDs, and USB microcontrollers
- Modular for easy device-specific support
- Easy to use Windows-based, PC interface
- New device support available with software changes on floppy disk, Cypress bulletin board, and Cypress web site
- DIP adapter included with base unit
- Mouse-driven user interface
- On-line documentation and device support list
- One-year warranty
- Dimensions of CY3500 are 25 x 25 x 7.6 cm or 9.75 x 9.75 x 3 in and the weight is 1.02 kg or 2.25 lbs.

Functional Description

Impulse3™ is Cypress's OEM version of the Data I/O Chip-Lab. It provides programming support for all of Cypress's programmable devices. The programmer uses a PC interface to provide an easily accessible programming environment. The PC's parallel port is used to communicate with the programmer, and device-specific adapters and drivers to ensure that you get the specific device support you need for your programming application.

CY3500 uses industry standard JEDEC and HEX (for PROMs) data format for programming and can be upgraded by Data I/O to support products from other vendors.

System Requirements

The CY3500 works with your IBM compatible PC computer. The minimum system requirements are:

- One free parallel port
- Minimum 2-MB extended memory
- Intel 386, 486, or Pentium processor
- DOS version 3.3 or higher, or Windows 3.1/95
- 5 MB of free hard disk space for the programmer drivers and programs
- High Density floppy disk drive (3.5-inch)
- Microsoft-compatible mouse

Device Support

Impulse3 is sold modularly and supports all Cypress programmable products. The base unit (CY3500) supports DIP devices up to 44 pins. For other device/package combinations, an adapter is required. In addition, devices over 44 pins require a high pin-count adapter (CY3501A).

Maximum Ratings

(Above which the useful life may be impaired. For user guidelines, not tested.)

Input Voltage	90 to 264 Vac, 48 to 63 Hz
Programmer Voltage	24V (AC or DC) ±10%
Programmer Current	AC = 1.67A, DC = 1.25A
Operating Temperature.....	0°C to 40°C
Storage Temperature.....	-40°C to 55°C
Relative Humidity (Operating)	20% to 80%
Relative Humidity (Storage)	10% to 90%
Operating Altitude.....	to 5,000 Meters
Storage Altitude	to 15,000 Meters

Ordering Information

Part Number	Description
CY3500	<i>Impulse3</i> base unit and DIP adapter for all DIP packaged devices
CY3501A	Adapter for high pin count devices including FLASH370i™
CY3509	28-pin PLCC for 344
CY3511	44-pin PLCC PPI for 343
CY3512	44-pin PLCC PPI for 371, 372
CY3514	68-pin PLCC PPI for 342
CY3516	84-pin PLCC PPI for 341
CY3517	84-pin PLCC PPI for 373, 374
CY3519	160-pin TQFP PPI for 375
CY3522	100-pin TQFP PPI for 373, 374
CY3524	100-pin PGA PPI for 346
CY3526	85-pin PGA PPI for 341
CY3527	85-pin PGA PPI for 373, 374
CY3529	69-pin PGA PPI for 342
CY3535	100-pin TQFP PPI for 346
CY3536	84-pin PLCC for 346
CY3537	160-pin CPGA PPI for 375
CY3541	160-pin CQFP T&F PPI for 375
CY3542	160-pin CQFP MCR PPI for 375
CY3544	20-pin QSOP PPI for 16V8
CY3545	44-pin PLCC PPI for 276
CY3546	44-pin TQFP PPI for 371
CY3004A	28-pin LCC adapter for 22V10
CY3004B	28-pin LCC adapter for PROM
CY3005	20-pin LCC adapter for PAL20, PALC20
CY3006A	28-pin PLCC adapter for 22V10
CY3006B	28-pin PLCC adapter for PROM
CY3007	20-pin PLCC adapter for PAL20, PALC20
CY3008	28-pin LCC adapter for 251, 265, 269, 271, 331, 335
CY3009	28-pin PLCC adapter for 251, 265, 269, 271, 331, 335
CY3010	28-pin LCC adapter for 20G10, 20RA10
CY3011	28-pin PLCC adapter for 20G10, 20RA10
CY3014	24-pin SOIC adapter for all PROMs except 268
CY3017	32-pin PLCC adapter for 251, 254
CY3019	24-pin CerPack adapter for 245, 261, 263, 291
CY3020	28-pin CerPack adapter for 251, 331, 271, 265
CY3021	20-pin CerPack adapter for PAL20, PALC20
CY3022	28-pin SOJ adapter for PROM
CY3024	32-pin LCC adapter for 256, 266, 271, 274, 277, 279, 286
CY3027	32-pin LCC adapter for 285, 287
CY3043	32-pin PLCC adapter for 27H010
CY3044	32-pin PLCC adapter for 256, 266, 271, 274, 277, 279, 286
CY3045	32-pin PLCC adapter for 285, 287

Ordering Information (continued)

Part Number	Description
CY3047	28-pin TSOP adapter for 256
CY3048	32-pin TSOP adapter for 256
CY3049	32-pin TSOP adapter for 27H010
CY3070	24-pin DIP for CY7C63000/1, CY7C63200/1, CY7C63201
CY3071	24-pin SOIC for CY7C63000/1, CY7C63101

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