Impulse3™ Device Programmer and Adapters

Features

- **OEM version of Data I/O ChipLab**™
- **Programs all Cypress PROMs, EPROMs, PLDs, CPLDs, and FPGAs**
- **Modular for easy device-specific support**
- **Easy to use Windows-based, PC interface**
- **New device support available with software changes on floppy disk and Cypress bulletin board**
- **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 ChipLab. 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, HEX (for PROMs), and LOF (for pASIC380) 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**
- **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 = 1.67 Å, DC = 1.25 Å

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	*Impulse3* base unit and DIP adapter for all DIP packaged devices.
CY3501A	Adapter for high pin count devices including pASIC380™ and FLASH370™ families
CY3509	28-pin PLCC for MAX340
CY3511	44-pin PLCC PPI for the MAX340
CY3512	44-pin PLCC PPI for the FLASH370
CY3513	44-pin PLCC PPI for pASIC380
CY3514	68-pin PLCC PPI for MAX340
CY3515A	68-pin PLCC PPI for pASIC380
CY3516	84-pin PLCC PPI for MAX340
CY3517	84-pin PLCC PPI for FLASH370
CY3518	84-pin PLCC PPI for pASIC380
CY3519	160-pin TQFP PPI for FLASH370
CY3521	144-pin TQFP PPI for CY7C386A
CY3522	100-pin TQFP PPI for FLASH370
CY3523	100-pin TQFP PPI for pASIC380
CY3524	100-pin PGA PPI for MAX340
CY3525	145-pin PGA PPI for pASIC380
CY3526	85-pin PGA PPI for MAX340
CY3527	85-pin PGA PPI for FLASH370
CY3528	85-pin PGA PPI for pASIC380
CY3529	69-pin PGA PPI for MAX340
CY3530	69-pin PGA PPI for pASIC380
CY3535	100-pin TQFP PPI for MAX340
CY3536	84-pin PLCC for MAX340
CY3537	160-pin CPGA PPI for FLASH370
CY3538	160-pin CQFP for pASIC380
CY3541	160-pin CQFP PPI for FLASH370
CY3542	160-pin MCR PPI for FLASH370
CY3543	160-pin MCR PPI for pASIC380
CY3546	44-pin TQFP PPI for FLASH370
CY3547	208-pin PQFP PPI for pASIC380
CY3548	144-pin TQFP PPI for CY7C387A
CY3004A	28-pin LCC adapter for PAL22V10
CY3005	20-pin LCC adapter for PAL20, PALC20 families
CY3006A	28-pin PLCC adapter for PAL22V10
CY3007	20-pin PLCC adapter for PAL20, PALC20 families
CY3008	28-pin LCC adapter for 265, 269, 330, 331, 332, 335
CY3009	28-pin PLCC adapter for 265, 269, 330, 331, 332, 335
CY3010	28-pin LCC adapter for 20G10, 20RA10
CY3011	28-pin PLCC adapter for 20G10, 20RA10
CY3014	24-pin SOIC adapter for CY7C251
CY3017	32-pin PLCC adapter for CY7C251
CY3019	24-pin CerPack adapter for 245, 261, 263, 291
CY3020	28-pin CerPack adapter for 251, 330, 331, 332, 271, 265

Part Number	Description
CY3021	20-pin CerPack adapter for PAL20, PALC20, families
CY3024	32-pin LCC adapter for 256, 266, 271, 274, 277, 279, 286
CY3027	32-pin LCC adapter for CY7C287
CY3043	32-pin PLCC adapter for CY7C201
CY3044	32-pin PLCC adapter for 256, 271, 266, 274, 277, 279, 286
CY3045	32-pin PLCC adapter for CY7C287

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