XILINX®

HW-130 Programmer

Product Specification

Device and Package Support

- XC1700 Serial PROMs
- XC18V00 ISP PROMs
- XC9500/XL CPLDs
- Supports all Xilinx package types

Programmer Accessories

- Universal power supply
- Power cord options for US, Asia, UK, European and Japanese standards
- Serial download cable and adapters
- User's manual
- Programmer interface software
- Vacuum handling tool

Interface Software and System Requirements

The programmer software operates on a Windows 32-bit platform. Table 1 indicates the minimum system requirements for each. In all cases, a CD-ROM drive and an RS-232 serial port are required. A mouse is recommended.

Table 1: **Interface Software and System Requirements**

Requirements	Windows 95	Windows 98	Windows NT
Memory	8 MB	16 MB	16 MB
Hard Disk Space	15 MB	15 MB	15MB
HW-130 Host Software	4.00 or greater	4.10 or greater	3.1 or greater

Programmer Functional Specifications

- Device programming, erasing, and verification
- CPLD security control
- Serial PROM reset polarity control
- Checksum calculation and comparison
- Blank check and signature ID tests
- Master device upload
- File transfer and comparison
- Self check and auto calibration

Programming Socket Adapters

- Supports all package styles: PLCC, PQFP, TQFP, VQFP, HQFP, BGA, SOIC, VOIC, CSP and DIP.
- Purchase as needed for specific package support.

Electrical Requirements and Physical Specifications

- Operating voltage: 100-250 VAC, 50-60 Hz
- Power consumption: 0.5 Amp
- Dimensions: 6" x 8" x 2" programmer, 3" x 5" x 1.75" power supply
- Weight: 1.2 lb. programmer, 1.3 lb. power supply
- Safety standards: approved by UL, CSA, TUV, CE

New Programming Algorithm Support

The new programmer algorithms are available via the Xilinx Web site. To access programmer software from the Xilinx Web site, go to: **http://www.xilinx.com**.

The URL for the index of HW-130 software can be found at: **www.xilinx.com/techdocs/htm_index/sw_programmer.htm**

Ordering Information

Part	Part No.
HW-130 Programmer for USA/Asia	HW-130-US
HW-130 Programmer for Europe	HW-130-EC
HW-130 Programmer for United Kingdom	HW-130-UK
HW-130 Programmer for Japan	HW-130-J

Adapter Selection

Product Family	Package Types	Adapter P/N
XC9500/XL	PLCC44	HW-133-PC44
XC9500	VQFP 44	HW-133-VQ44
XC9500/XL	CSP 48	HW-133-CS48
XC9500XL	VQFP 64	HW-133-VQ64
XC9500	PLCC 84	HW-133-PC84
XC9500	PQFP 100	HW-133-PQ100
XC9500/XL	TQFP 100	HW-133-TQ100
XC9500XL	CSP 144	HW-133-CS144
XC9500XL	TQFP 144	HW-133-TQ144
XC9500[1]	PQFP 160	HW-133-PQ160
XC9500/XL	PQFP/HQFP 208	HW-133-HQ208
XC9500/XL	BGA 352	HW-133-BG352
XC1700 & XC17S00	DIP 8	HW-137-DIP8
XC1700 & XC17S00	PLCC20/SO8/VO8	HW-137-PC20/SO8
XC1700 & XC17S00	SO20	HW-137-SO20
XC1700	PLCC 44/VQFP 44	HW-137-PLCC44/VQ44
XC18V00	PLCC 44/VQFP 44	HW-137-PLCC44/VQ44
XC18V00	PLCC 20/SOIC 20	HW-137-PC20/S020
Calibration Adapter		HW-130-CAL

Notes:
1. Xilinx has manufactured two versions of the HW-133-PQ160 adapter. The current and correct adapter for programming XC9500 devices has "CPLD" written on the front label, at the top left side, under the Xilinx logo.

Revision History

The following table shows the revision history for this document.

Date	Version	Revision
6/13/98	1.3	Added Windows 98 system requirements, added HW-137-LCC44/VQ44 to Adapter Selection table.
11/2798	1.4	Removed DOS and Windows 3.1 support. Revised the physical specifications to include the power supply dimensions and weight. Removed the obsolete XC7200/7300 product families. Added package adapters for the XC9500/XL series in CSP 48, VQFP 64, CSP and TQFP 144 packages.
01//13/00	1.5	Added DS number, and XC1800 Serial PROM adapters. Added version column to revision control table.
04/08/03	1.6	Changed XC1800 Serial PROM to XC18V00 ISP PROM. Updated the template. Added **Ordering Information**.