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Features

Hardware

- Supports Programming of all AT17LV and AT17F Series Devices
- Connection to Allow In-System Programming (ISP)
- Runs off Portable 9V DC Power Supply
- 5.0V Supply

Software

- CPS – Configurator Programming System
- GUI-based Interface
- Supports Windows® 95/98/2000 and WindowsNT®
- Online Help
- Supports Programming Reset Polarity
- Verification Routines to Validate Programming
- Accepts HEX, MCS, POF, RBF and BST File Formats

System Contents

- ATDH2200 Programming Board
- ATDH2222 20-pin PLCC Adapter
- CPS Software
- ATDH2200E Datasheet
- ATDH2200E Programming Kit User Guide
- Standard (PC Printer Port) Parallel Cable
- 10-pin Ribbon Cable for ISP
- 9V DC, 500 mA, 2.1 mm Center Positive/Negative Power Supply
- Sample AT17C/LV Devices

Description

The ATDH2200E allows designers to quickly and economically program Atmel's family of AT17 Configuration Memories. The system also provides support for new devices in the AT17 family prior to Third Party Programmer support being available. A truly portable solution that allows engineers to work from their lab bench or office.

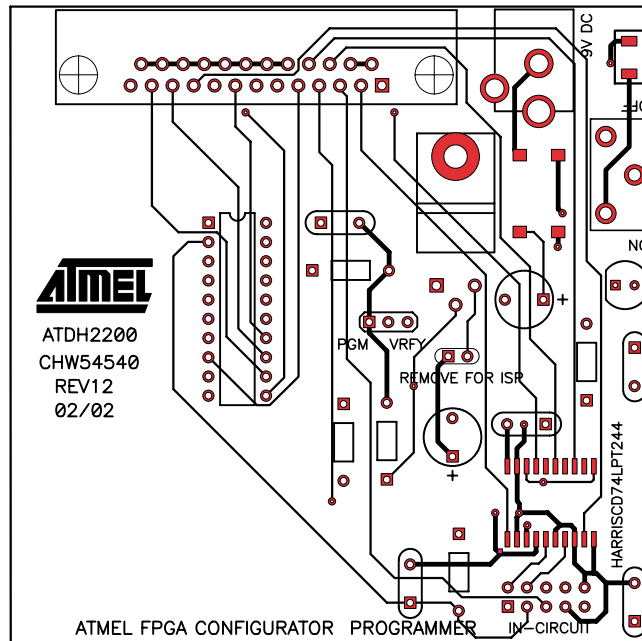


FPGA Configurator Programming Kit (Enhanced)

ATDH2200E

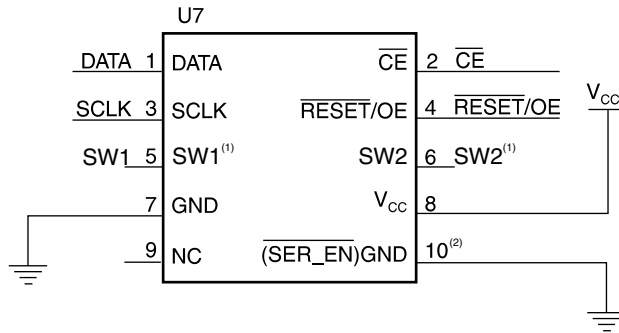


Figure 1. ATDH2200E Configurator Programming Board



In-System Programming Connector

Figure 2. In-System Programming Header



- Notes:
- SW1 and SW2 are designed to be used for special cascaded EEPROM circuitry in the future. SW1 and SW2 are connected to pin 3 and pin 4 of the parallel port on the ATDH2200E board (Rev.12).
 - Pin 10 activates $\overline{SER_EN}$ on target board

The ATDH2200E programming board has a 10 pin header (0.1" spacing) to facilitate in-system programming (Figure 2) of the AT17 parts. The control signals generated by the software are fed to the header, as well as to socket U3 on the board. By placing a similar socket on the target system and connecting the programming board to that target system, the programming algorithms written by Atmel can be used to program an AT17 device in-system.

Related Documents

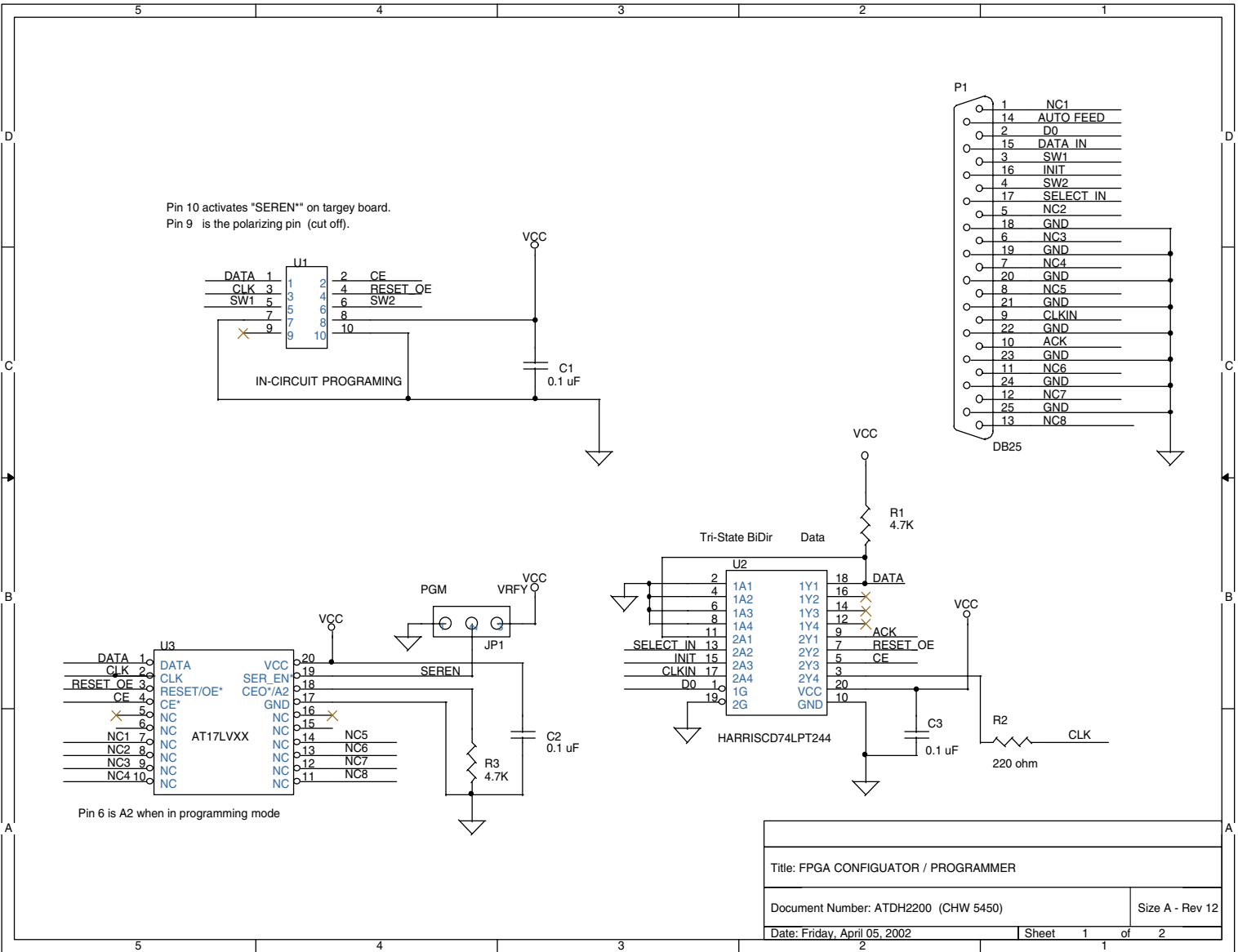
- ATDH2200E Programming Kit User Guide
- AT17 Series datasheet
- Programming Specification for Atmel's FPGA Configuration EEPROMs
- In-System Programming Cascaded Configurators
- AT17A Series datasheet

**Adapters Available for the
ATDH2200E**

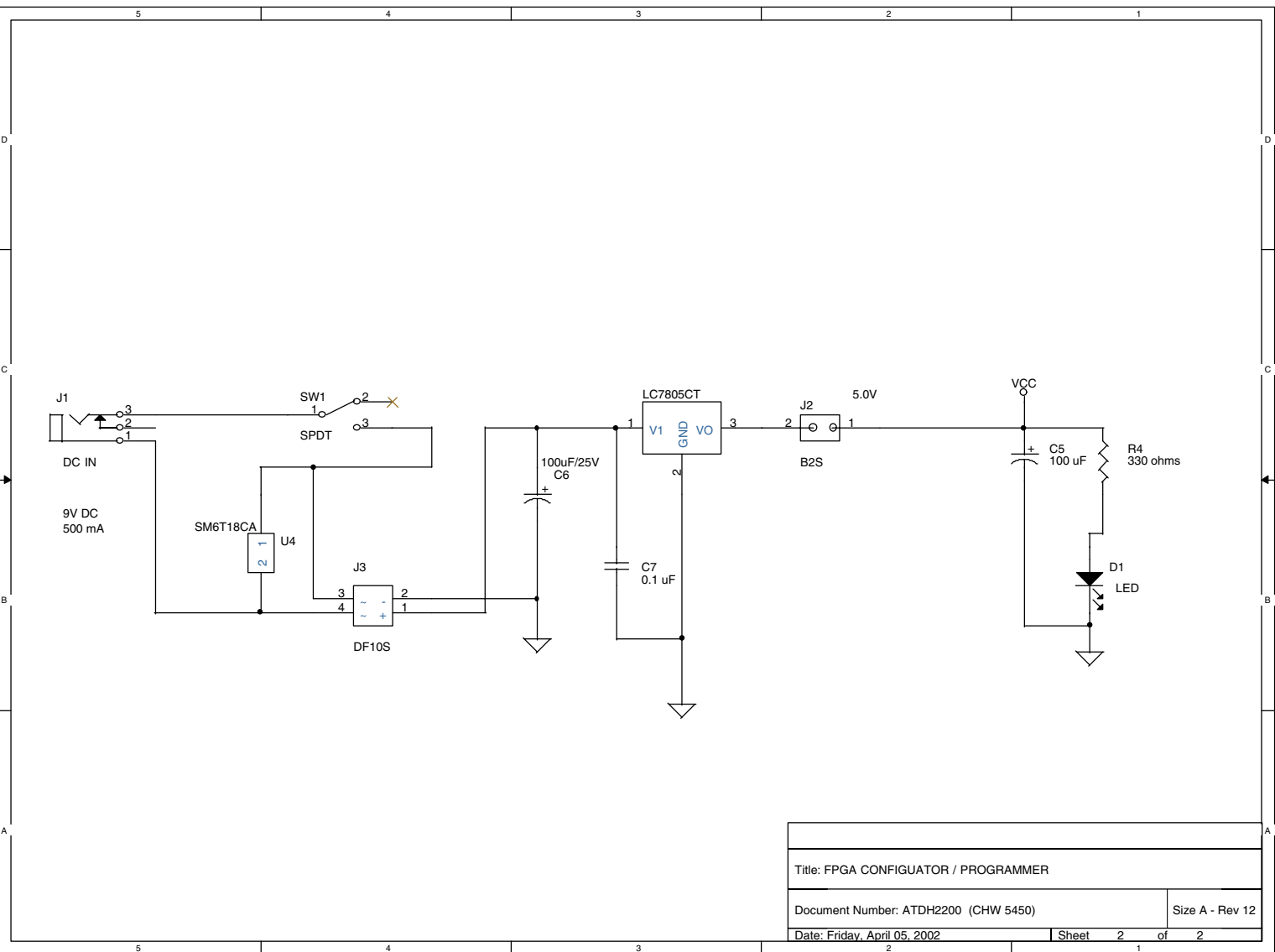
- ATDH2222 – 20-lead PLCC adapter (supplied with kit)
- ATDH2221 – 20-lead SOIC adapter
- ATDH2223 – 8-lead SOIC adapter
- ATDH2224 – 44-lead TQFP
- ATDH2226 – 32-lead TQFP
- ATDH2227 – 44-lead PLCC (non-A parts only)
- ATDH2227A – 44-lead PLCC (A parts only)
- ATDH2228 – 8-lead LAP

Schematics

Programming Connections



Power Supply Generation



Title: FPGA CONFIGURATOR / PROGRAMMER	
Document Number: ATDH2200 (CHW 5450)	Size A - Rev 12
Date: Friday, April 05, 2002	Sheet 2 of 2





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