



CPLDs (Complex Programmable Logic Devices)

Atmel offers a broad range of high-density, low-power, and cost-effective solutions enabling designers to create products that are "just what the market ordered." Based on a standard architecture, which uses industry standard development tools, Atmel's CPLDs offer the unique low-power or "L" feature while providing 100% connectivity. These devices are processed with Atmel's proprietary 0.65-micron processes and have a EEPROM memory.

The ATF750/C CPLDs are based on a 22V10-type architecture and

provide market-leading capacity and flexibility in a 22V10 footprint with twice the registers and additional features for better logic utilization.

The ATF1500 Series is targeted at wider logic density, with higher number of I/O's. This family has devices from 44 to 160 pins, and 32 to 96 I/O's. High connectivity, and flexible architecture make these parts highly suitable for system design. In system programmability in the larger devices allow for reconfiguration even after the device is in the system.

Standard Development Tools

Atmel's philosophy is that designers should be able to use known development tools. Third-party design tools such as Synario™, ABEL™, CUPL™, PPLDesigner-XL™, LOG/IC™, and PLDSyn™ support Atmel's EPLDs. Also Atmel-specific versions of the popular Synario, ABEL, and CUPL design tools are offered. In addition, workstation support is available on popular platforms with Viewlogic, MINC, Cadence, Mentor, and Synopsys.

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Voltage	ISP	Tpd (ns)	Registers	Macro-cells	Usable Gates	Power Option	Package Type	Digi-Key Part No.	1	Price Each 25	100	Atmel Part No.
ATF750 Series												
5.0	No	15	20	10	750	Standard	28-PLCC	ATF750C-15JC-ND	2.54	2.15	1.91	ATF750C-15JC
5.0	No	15	20	10	750	Standard	24-DIP	ATF750C-15PC-ND	2.54	2.15	1.91	ATF750C-15PC
5.0	No	15	20	10	750	Standard	24-SOIC	ATF750C-15SC-ND	2.54	2.15	1.91	ATF750C-15SC
5.0	No	15	20	10	750	Low	28-PLCC	ATF750CL-15JC-ND	2.90	2.43	2.16	ATF750CL-15JC
5.0	No	15	20	10	750	Low	24-DIP	ATF750CL-15PC-ND	2.80	2.00	1.82	ATF750CL-15PC
5.0	No	15	20	10	750	Low	24-SOIC	ATF750CL-15SC-ND	2.90	2.43	2.16	ATF750CL-15SC
ATF1500 Series												
5.0	No	10	32	32	1500	Standard	44-TQFP	ATF1500A-10AC-ND	3.87	3.69	3.45	ATF1500A-10AC
5.0	No	10	32	32	1500	Standard	44-PLCC	ATF1500A-10JC-ND	3.44	2.83	2.53	ATF1500A-10JC
2.7	No	15	32	32	1500	Standard	44-TQFP	ATF1500ABV-15AC-ND	3.66	2.62	2.45	ATF1500ABV-15AC
2.7	No	15	32	32	1500	Standard	44-PLCC	ATF1500ABV-15JC-ND	3.66	2.99	2.67	ATF1500ABV-15JC
5.0	Yes	10	32	32	1500	Standard	44-TQFP	ATF1502AS-10AC-ND	3.59	2.94	2.63	ATF1502AS-10AC44
5.0	Yes	10	32	32	1500	Standard	44-PLCC	ATF1502AS-10JC-ND	3.59	2.94	2.63	ATF1502AS-10JC44
5.0	Yes	10	64	64	3000	Standard	44-TQFP	ATF1504AS-10AC44-ND	4.52	3.62	3.25	ATF1504AS-10AC44
5.0	Yes	10	64	64	3000	Standard	44-PLCC	ATF1504AS-10JC44-ND	4.92	3.92	3.53	ATF1504AS-10JC44
5.0	Yes	10	64	64	3000	Standard	68-PLCC	ATF1504AS-10JC68-ND	6.94	5.37	4.86	ATF1504AS-10JC68
5.0	Yes	10	64	64	3000	Standard	84-PLCC	ATF1504AS-10JC84-ND	7.46	5.73	5.20	ATF1504AS-10JC84
5.0	Yes	10	64	64	3000	Standard	100-TQFP	ATF1504AS-10AC100-ND	7.01	5.41	4.91	ATF1504AS-10AC100
5.0	Yes	15	64	64	3000	Standard	100-TQFP	ATF1504AS-15AC100-ND	6.58	5.11	4.62	ATF1504AS-15AC100
5.0	Yes	10	64	64	3000	Standard	100-PQFP	ATF1504AS-10QC100-ND	9.52	7.18	6.54	ATF1504AS-10QC100
5.0	Yes	20	64	64	3000	Low	44-TQFP	ATF1504ASL-20AC44-ND	4.79	3.82	3.44	ATF1504ASL-20AC44
5.0	Yes	20	64	64	3000	Low	44-PLCC	ATF1504ASL-20JC44-ND	5.16	4.09	3.69	ATF1504ASL-20JC44
5.0	Yes	20	64	64	3000	Low	68-PLCC	ATF1504ASL-20JC68-ND	7.27	5.60	5.08	ATF1504ASL-20JC68
5.0	Yes	20	64	64	3000	Low	84-PLCC	ATF1504ASL-20JC84-ND	7.78	5.96	5.41	ATF1504ASL-20JC84
5.0	Yes	20	64	64	3000	Low	100-TQFP	ATF1504ASL20AC100-ND	7.33	5.64	5.12	ATF1504ASL-20JC100
5.0	Yes	20	64	64	3000	Low	100-PQFP	ATF1504ASL20QC100-ND	9.89	7.44	6.78	ATF1504ASL-20QC100
3.3	Yes	15	64	64	3000	Standard	44-TQFP	ATF1504ASV-15AC44-ND	4.79	3.82	3.44	ATF1504ASV-15AC44
3.3	Yes	15	64	64	3000	Standard	44-PLCC	ATF1504ASV-15JC44-ND	5.16	4.09	3.69	ATF1504ASV-15JC44
3.3	Yes	15	64	64	3000	Standard	68-PLCC	ATF1504ASV-15JC68-ND	7.27	5.60	5.08	ATF1504ASV-15JC68
3.3	Yes	15	64	64	3000	Standard	84-PLCC	ATF1504ASV-15JC84-ND	7.78	5.96	5.41	ATF1504ASV-15JC84
3.3	Yes	15	64	64	3000	Standard	100-TQFP	ATF1504ASV15AC100-ND	7.33	5.64	5.12	ATF1504ASV-15AC100
3.3	Yes	15	64	64	3000	Standard	100-PQFP	ATF1504ASV15QC100-ND	9.89	7.44	6.78	ATF1504ASV-15QC100
3.3	Yes	20	64	64	3000	Low	44-TQFP	ATF1504ASVL20AC44-ND	5.07	4.03	3.63	ATF1504ASVL-20AC44
3.3	Yes	20	64	64	3000	Low	44-PLCC	ATF1504ASVL20JC44-ND	5.42	4.28	3.86	ATF1504ASVL-20JC44
3.3	Yes	20	64	64	3000	Low	68-PLCC	ATF1504ASVL20JC68-ND	7.57	5.81	5.27	ATF1504ASVL-20JC68
3.3	Yes	20	64	64	3000	Low	84-PLCC	ATF1504ASVL20JC84-ND	8.13	6.20	5.64	ATF1504ASVL-20JC84
3.3	Yes	20	64	64	3000	Low	100-TQFP	ATF1504ASVL20AC10-ND	7.68	5.88	5.34	ATF1504ASVL-20AC100
5.0	Yes	10	128	128	6000	Standard	84-PLCC	ATF1508AS-10JC84-ND	18.51	13.31	12.22	ATF1508AS-10JC84
5.0	Yes	10	128	128	6000	Standard	100-TQFP	ATF1508AS-10AC100-ND	21.16	15.07	13.86	ATF1508AS-10AC100
5.0	Yes	10	128	128	6000	Standard	100-PQFP	ATF1508AS-10QC100-ND	22.83	16.19	14.90	ATF1508AS-10QC100
5.0	Yes	10	128	128	6000	Standard	160-PQFP	ATF1508AS-10QC160-ND	28.38	19.84	18.30	ATF1508AS-10QC160
5.0	Yes	20	128	128	6000	Low	84-PLCC	ATF1508ASL-20JC84-ND	9.78	7.36	6.71	ATF1508ASL-20JC84
5.0	Yes	20	128	128	6000	Low	100-TQFP	ATF1508ASL20AC100-ND	12.06	8.94	8.16	ATF1508ASL-20AC100
5.0	Yes	20	128	128	6000	Low	100-PQFP	ATF1508ASL20QC100-ND	13.37	9.83	9.00	ATF1508ASL-20QC100
5.0	Yes	20	128	128	6000	Low	160-PQFP	ATF1508ASL20QC160-ND	17.48	12.61	11.58	ATF1508ASL-20QC160
3.3	Yes	15	128	128	6000	Standard	84-PLCC	ATF1508ASV-15JC84-ND	12.34	9.13	8.34	ATF1508ASV-15JC84
3.3	Yes	15	128	128	6000	Standard	100-TQFP	ATF1508ASV15AC100-ND	14.60	10.67	9.77	ATF1508ASV-15AC100
3.3	Yes	15	128	128	6000	Standard	100-PQFP	ATF1508ASV15QC100-ND	15.89	11.54	10.58	ATF1508ASV-15QC100
3.3	Yes	15	128	128	6000	Standard	160-PQFP	ATF1508ASV15QC160-ND	19.91	14.24	13.09	ATF1508ASV-15QC160
3.3	Yes	20	128	128	6000	Low	100-TQFP	ATF1508ASVL20AC10-ND	14.60	10.67	9.77	ATF1508ASVL-20AC100
ATF2500 Series												
5	No	15	48	24	1500	Standard	44-PLCC	ATF2500C-15JC-ND	5.33	4.09	3.60	ATF2500C-15JC
5	No	15	48	24	1500	Standard	44-PLCC	ATF2500C-15JI-ND*	6.71	5.15	4.52	ATF2500C-15JI
5	No	20	48	24	1500	Standard	44-PLCC	ATF2500C-20JC-ND	4.69	3.60	3.17	ATF2500C-20JC
5	No	20	48	24	1500	Standard	44-PLCC	ATF2500C-20JI-ND*	5.89	4.51	3.97	ATF2500C-20JI
5	No	20	48	24	1500	Standard	40-DIP	ATF2500C-20PC-ND	4.69	3.60	3.17	ATF2500C-20PC
5	No	20	48	24	1500	Standard	40-DIP	ATF2500C-20PI-ND*	5.89	4.51	3.97	ATF2500C-20PI
5	No	20	48	24	1500	Standard	40-PLCC	ATF2500CL-20JI-ND*	6.19	4.76	4.18	ATF2500CL-20JI

* Industrial Temperature

ATF15xx-DK2 CPLD Development Kit

The ATF15xx-DK2 is a second generation low-cost development programmer kit for the designer who wishes to begin working with Atmel's ATF15xx family of industry standard pin-compatible Complex Programmable Logic Devices (CPLD) with Logic Doubling™. Like the original ATF15xx-DK, the "DK2" allows designers to design, synthesize, simulate, program and evaluate their designs using their choice of either free Atmel-WinCUPL™ design software or a 30-day free trial version of Atmel-ProChip Designer™ using any 84-pin ATF15xx device, such as those provided with the kit. In addition, the kit can be extended to be used to program all of the Atmel ATF15xx Family with different packages by simply adding the package adapters (only PLCC84 is included in the kit). Once the design is completed, the designer can install a sample ATF15xx Family device in the provided PCB and program it using the built-in In-System-Programmable (ISP) industry-standard 4-pin JTAG interface, ATMISP software, and PC parallel port cable provided. The tutorial included takes the designer through the complete CPLD

development process. All software runs on PC Windows™ platforms. In addition, mounting holes are provided to add wire-wrap terminals for all pins to allow comprehensive proto-typing and evaluation. The ATF15xx-DK2 includes everything a designer needs to get started with Atmel-Logic Doubling CPLDs including:

CPLD Demo Board/Programmer Board: • 84-lead PLCC Adapter
• ISP (JAT) Port • Wire-wrap Terminal Holes-all Pins • 2 MHz Crystal Oscillator • Eight 8-segment LED Displays • 5V and 3.3V Vcc operation
• Easy access to CPLD I/O pins • Global Clear, Output Enable and Power Switches

Logic Doubling™ CPLDs: • ATF1508AS-15JC84 5V 128 Macrocell CPLD with ISP • ATF1508ASV-20JC84 3.3V Low-power 128 Macrocell CPLD with ISP

CPLD Programmable Cable: • 5V and 3.3V ISP cable for PC parallel port with Vcc Auto Detection

Software CD: • Free Atmel-WinCUPL design software and User's Manual • 30-day Trial Version of Atmel-ProChip Designer™ software
• Logic Doubling Support and Documentation • Logic Doubling Reference • Atmel Databook CD

Atmel-WinCUPL:

Design Entry: • CUPL • Compilation • WinSIM Functional Simulation
• Atmel Proprietary Device Filters with Logic Doubling

Atmel-ProChip Designer:

Design Entry: • VHDL, Schematic, and CUPL • Synthesis • Functional Simulation • Atmel Proprietary Device Filters with Logic Doubling
• Timing Simulation

ATF15XX-DK2-ND CPLD Development Kit\$99.20

More Product Available Online: www.digikey.com



FPGA's (Field Programmable Gate Arrays)

AT40K Series FPGAs

Atmel's AT40K Series coprocessor FPGAs range from 5K to 50K usable gates, and are designed for high density, compute-intensive DSP and other fast logic designs. The AT40K family solves the Logic vs. SRAM trade-off problem by providing fast, flexible, distributed 10ns FreeRAM™ without using valuable logic resources. Structured logic functions, including variable array multipliers can be implemented directly in core cells without using any bussing resources - providing dramatic improvements in speed, utilization, power and system cost.

The AT40K family has the ability to implement Cache Logic design, where part of the FPGA can be reprogrammed without loss of register data, while the remainder of the FPGA continues to operate without disruption. This is ideal for building adaptive filters, variable coefficient multipliers and other designs where the datapath can change to increase system performance.

All Atmel FPGAs can be designed using industry standard CAE tools for schematics, VHDL and Verilog on a PC, Sun, or HP workstation. Software tools are available on Atmel's website at: http://www.atmel.com/fpga_software.html

Features:

- Distributed, single/dual port 10ns SRAM, independent of logic cells
- Up to 384 PCI compliant I/Os
- Mixed 3V/5V capability
- Architecture optimized for efficient, ultrafast array multipliers
- Cache Logic® dynamic full/partial reconfigurability in-system
- Eight global clocks
- Efficient, industry-standard design tools, optimized for synthesis
- QuickChange™ tools for adaptive hardware designs
- Variety of surface mount packages
- All devices in family are pin-compatible

Package Options	Usable Gates	Cells	Ram (Bits)	I/O (Max)	Speed (ns)	Vcc	Digi-Key Part No.	Price Each		
								1	25	100
84-PLCC	5K-10K	256	2,048	62	2	5.0	AT40K05-2AJC-ND	25.80	18.14	16.72
144-TQFP	5K-10K	256	2,048	114	2	5.0	AT40K05-2BQC-ND	28.92	20.19	18.63
208-PQFP	5K-10K	256	2,048	128	2	5.0	AT40K05-2DQC-ND	29.67	20.68	19.08
84-PLCC	5K-10K	256	2,048	62	3	3.3	AT40K05LV-3AJC-ND	17.20	12.43	11.40
144-TQFP	5K-10K	256	2,048	114	3	3.3	AT40K05LV-3BQC-ND	19.26	13.81	12.69
208-PQFP	5K-10K	256	2,048	128	3	3.3	AT40K05LV-3DQC-ND	19.78	14.16	13.01
84-PLCC	10K-20K	576	4,608	62	2	5.0	AT40K10-2AJC-ND	32.90	22.78	21.04
144-TQFP	10K-20K	576	4,608	114	2	5.0	AT40K10-2BQC-ND	28.23	19.41	17.95
208-PQFP	10K-20K	576	4,608	161	2	5.0	AT40K10-2DQC-ND	37.84	25.98	24.02
84-PLCC	10K-20K	576	4,608	62	3	3.3	AT40K10LV-3AJC-ND	25.80	18.14	16.72
144-TQFP	10K-20K	576	4,608	114	3	3.3	AT40K10LV-3BQC-ND	28.90	20.17	18.61
208-PQFP	10K-20K	576	4,608	161	3	3.3	AT40K10LV-3DQC-ND	29.67	20.68	19.08
84-PLCC	20K-30K	1024	8,192	62	2	5.0	AT40K20-2AJC-ND	58.48	39.12	36.29
144-TQFP	20K-30K	1024	8,192	114	2	5.0	AT40K20-2BQC-ND	65.51	43.54	40.41
208-PQFP	20K-30K	1024	8,192	161	2	5.0	AT40K20-2DQC-ND	67.25	44.63	41.43
84-PLCC	20K-30K	1024	8,192	62	3	3.3	AT40K20LV-3AJC-ND	43.00	29.29	27.11
144-TQFP	20K-30K	1024	8,192	114	3	3.3	AT40K20LV-3BQC-ND	48.16	32.59	30.19
208-PQFP	20K-30K	1024	8,192	161	3	3.3	AT40K20LV-3DQC-ND	49.45	33.41	30.95
144-TQFP	40K-50K	2304	18,432	114	2	5.0	AT40K40-2BQC-ND	137.06	87.46	81.47
208-PQFP	40K-50K	2304	18,432	161	2	5.0	AT40K40-2DQC-ND	140.72	89.66	83.53
144-TQFP	40K-50K	2304	18,432	114	3	3.3	AT40K40LV-3BQC-ND	113.52	73.18	68.11
208-PQFP	40K-50K	2304	18,432	161	3	3.3	AT40K40LV-3DQC-ND	118.68	76.32	71.05



FPGA Configuration Memory In-System Reprogrammable Serial EEPROMs

The AT17 Series FPGA Configuration EEPROMs (Configurators) provide an easy-to-use, cost-effective configuration memory for Field Programmable Gate Arrays. It uses a simple serial-access procedure to configure one or more FPGA devices. The organization supplies enough memory to configure one or multiple smaller FPGAs. The Configurators can be programmed with industry-standard programmers or Atmel's ATDH2200E Programming System.

- Features:**
- EE Reprogrammable Serial Memories Designed to Store Configuration Programs for Field Programmable Gate Arrays (FPGAs)
 - In-System Programmable via 2-wire Bus
 - Simple Interface to SRAM FPGAs
 - Compatible with Atmel AT6000, AT40K FPGAs, Altera FLEX® Devices, ORCA® FPGAs, Xilinx XC3000, XC4000, XC5200, Spartan®, Virtex® FPGAs
 - Cascadable Read Back to Support Additional Configurations or Future Higher-density Arrays
 - Low-power CMOS EEPROM Process
 - Programmable Reset Polarity
 - Available in PLCC Package (Pin Compatible Across Product Family)
 - Emulation of Atmel's AT24CXX Serial EEPROMs
 - Available in 3.3V ± 10% LV and 5V ± 5% C Versions
 - System-friendly READY Pin
 - Low-power Standby Mode

Package Options	Memory Size	Vcc	Digi-Key Part No.	Price Each		
				1	25	100
8-SOIC	64Kbit	5.0	AT17C65-10NI-ND	7.95	5.47	4.96
8-SOIC	64Kbit	5.0	AT17C65-10NC-ND	6.60	4.46	4.03
8-LAP	64Kbit	5.0	AT17C65-10CC-ND	5.57	3.70	3.33
8-SOIC	64Kbit	3.3	AT17LV65-10SI-ND	10.64	7.96	7.26
8-SOIC	64Kbit	3.3	AT17LV65-10SC-ND	8.51	6.47	5.89
8-DIP	64Kbit	3.3	AT17LV65-10PI-ND	8.06	6.16	5.59
8-DIP	64Kbit	3.3	AT17LV65-10PC-ND	5.16	4.09	3.69
8-SOIC	64Kbit	3.3	AT17LV65-10NI-ND	8.51	6.47	5.89
8-SOIC	64Kbit	3.3	AT17LV65-10NC-ND	6.82	5.28	4.78
8-LAP	64Kbit	3.3	AT17LV65-10CI-ND	6.97	5.38	4.88
8-LAP	64Kbit	3.3	AT17LV65-10CC-ND	5.55	4.37	3.94
20-PLCC	64Kbit	3.3	AT17LV65-10JI-ND	9.68	7.29	6.64
20-PLCC	64Kbit	3.3	AT17LV65-10JC-ND	6.19	4.83	4.37
8-SOIC	128Kbit	5.0	AT17C128-10NI-ND	11.83	8.45	7.71
8-SOIC	128Kbit	5.0	AT17C128-10NC-ND	9.78	6.87	6.25
8-LAP	128Kbit	5.0	AT17C128-10CC-ND	8.23	5.69	5.16
8-SOIC	128Kbit	3.3	AT17LV128-10SI-ND	17.03	12.31	11.30
8-SOIC	128Kbit	3.3	AT17LV128-10SC-ND	13.63	10.01	9.16
8-DIP	128Kbit	3.3	AT17LV128-10PI-ND	12.90	9.51	8.70
8-DIP	128Kbit	3.3	AT17LV128-10PC-ND	8.26	6.29	5.72
8-SOIC	128Kbit	3.3	AT17LV128-10NI-ND	13.63	10.01	9.16
8-SOIC	128Kbit	3.3	AT17LV128-10NC-ND	10.90	8.14	7.42
8-LAP	128Kbit	3.3	AT17LV128-10CI-ND	11.14	8.30	7.58
8-LAP	128Kbit	3.3	AT17LV128-10CC-ND	8.88	6.73	6.12
20-PLCC	128Kbit	3.3	AT17LV128-10JI-ND	15.48	11.27	10.33
20-PLCC	128Kbit	3.3	AT17LV128-10JC-ND	9.91	7.45	6.79
8-SOIC	256Kbit	5.0	AT17C256-10NI-ND	21.52	16.10	14.82
8-SOIC	256Kbit	3.3	AT17LV256-10SI-ND	34.06	23.53	21.74
8-SOIC	256Kbit	3.3	AT17LV256-10SC-ND	27.24	19.09	17.60
8-DIP	256Kbit	3.3	AT17LV256-10PI-ND	25.80	18.14	16.72
8-DIP	256Kbit	3.3	AT17LV256-10PC-ND	16.51	11.96	10.97
8-SOIC	256Kbit	3.3	AT17LV256-10NI-ND	27.24	19.09	17.60
8-SOIC	256Kbit	3.3	AT17LV256-10NC-ND	21.80	15.50	14.26

Package Options	Memory Size	Vcc	Digi-Key Part No.	Price Each		
				1	25	100
8-LAP	256Kbit	3.3	AT17LV256-10CI-ND	22.30	15.83	14.57
8-LAP	256Kbit	3.3	AT17LV256-10CC-ND	17.76	12.80	11.75
20-PLCC	256Kbit	3.3	AT17LV256-10JI-ND	30.96	21.52	19.87
20-PLCC	256Kbit	3.3	AT17LV256-10JC-ND	19.82	14.18	13.04
8-LAP	512Kbit	5.0	AT17C512-10CC-ND	18.00	13.29	12.21
8-DIP	512Kbit	3.3	AT17LV512-10PI-ND	31.37	21.79	20.11
8-DIP	512Kbit	3.3	AT17LV512-10PC-ND	25.09	17.68	16.29
8-LAP	512Kbit	3.3	AT17LV512-10CI-ND	27.09	18.99	17.51
8-LAP	512Kbit	3.3	AT17LV512-10CC-ND	21.59	15.36	14.13
20-PLCC	512Kbit	3.3	AT17LV512-10JI-ND	37.65	25.85	23.91
20-PLCC	512Kbit	3.3	AT17LV512-10JC-ND	24.08	17.01	15.67
8-LAP	1-Mbit	5.0	AT17C010-10CC-ND	23.12	17.38	16.01
8-DIP	1-Mbit	3.3	AT17LV010-10PI-ND	43.00	29.29	27.11
8-DIP	1-Mbit	3.3	AT17LV010-10PC-ND	34.40	23.76	21.95
8-LAP	1-Mbit	3.3	AT17LV010-10CI-ND	37.15	25.54	23.61
8-LAP	1-Mbit	3.3	AT17LV010-10CC-ND	29.58	20.62	19.03
20-PLCC	1-Mbit	3.3	AT17LV010-10JI-ND	51.60	34.77	32.23
20-PLCC	1-Mbit	3.3	AT17LV010-10JC-ND	33.02	22.86	21.12
32-TQFP	1-Mbit	3.3	AT17LV010A-10QI-ND	21.52	15.31	14.09
8-LAP	2-Mbit	5.0	AT17C002-10CC-ND	31.33	24.01	22.18
20-PLCC	2-Mbit	5.0	AT17C002-10JC-ND	35.27	27.21	25.17
8-LAP	2-Mbit	3.3	AT17LV002-10CI-ND	43.41	29.56	27.36
8-LAP	2-Mbit	3.3	AT17LV002-10CC-ND	34.79	24.01	22.18
20-PLCC	2-Mbit	3.3	AT17LV002-10JI-ND	49.71	33.57	31.11
20-PLCC	2-Mbit	3.3	AT17LV002-10JC-ND	39.75	27.21	25.17
44-PLCC	2-Mbit	3.3	AT17LV002-10BJI-ND	49.71	33.57	31.11
44-PLCC	2-Mbit	3.3	AT17LV002-10BJC-ND	39.75	27.21	25.17
44-TQFP	2-Mbit	3.3	AT17LV002-10TQI-ND	49.71	33.57	31.11
44-TQFP	2-Mbit	3.3	AT17LV002-10TQC-ND	39.75	27.21	25.17
20-PLCC	2-Mbit	3.3	AT17LV020-10JI-ND	61.92	41.29	38.31
44-PLCC	4-Mbit	3.3	AT17LV040-10BJC-ND	58.48	39.12	36.29

FPGA Configurator Programming Kit (Enhanced) ATDH2200E

Atmel offers a low cost development kit for the designer who wishes to begin working with the AT17 Series of ISP FPGA configuration memories. The kit allows designers to read, write and in-system program any of Atmel's AT17 series family members directly from a PC. All standard file input formats produced by the various FPGA vendors are supported. The AT17 series devices can be programmed directly on the programming board or the board can be used to facilitate in-system programming of the AT17 series devices in the target application (cable provided). The ATDH2200E supports all Atmel AT17 series configuration memories.

Features:

Hardware:

- Supports Programming of all AT17C/LV Series Devices
- Connection to Allow In-System Prog. (ISP)
- 5.0V or 3.0V Supply

Software:

- CPS - Configurator Programming System
- GUI-based Interface
- Supports Win95/Win98/WinNT
- 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, 200 mA, 2.1 mm Center Positive Power Supply
- Sample AT17C/LV Devices

ATDH2200E-ND FPGA Configurator Program Kit \$350.00

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