

Programmer Support for Atmel Serial Flash Devices

Device	Package	Needham's Electronics Programmer: EMP 30/31/300		Hi-Lo Systems Programmer: ALL-100		BP Microsystems Programmer: BP-1400/1600/ 17x0/2x00/3x00/4x00		Data I/O Corp. Programmer: Unisite/Autosite/2900/3900		Minato Programmer: 1881XP/UXP	
		Windows® S/W Ver.	Hardware	Software	Hardware	Windows® S/W Ver.	Hardware	S/W Ver.	Hardware	S/W Ver.	Hardware
AT26DF041	MLF	1.5 AP5 SP2	WSON8-303B	1.49	M1-UN-DP48	–	–	–	–	–	–
	SOIC	1.5 AP5 SP2	SOIC16-303B	1.49	M1-UN-DP48	4.75 beta	ASM08SG ASM08SHA SM08SG SM08SHA	7.9	PM220-SOIC	7.1	SDP-UNIV- 20S0/200
AT26F004	SOIC (Wide)	–	–	1.49	M1-UN-DP48	4.75 beta	ASM08SG ASM08SHA SM08SG SM08SHA	7.9 beta	AS-08-08- 03S-3YAM	7.1	SDP-UNIV- 20S0/200
AT26DF081A	SOIC (Narrow)	1.6	SOIC20-303B	1.49	M1-UN-DP48	4.75 beta	ASM0SSJA ASM0SSR ASM16SA	7.9 beta	AS-08-08- 03S-3YAM	7.1	SDP-UNIV- 20S0/200
	SOIC (Wide)	1.6	WSON8-303B	1.49	M1-UN-DP48	4.75 beta	ASM08SG ASM08SHA SM08SG SM08SHA	7.9 beta	PPI-1304	–	–
AT26DF161	MLF	1.6	WSON8-303B	1.49	M1-UN-DP48	–	–	8.0 beta	PPI-1304	–	–
	SOIC	1.6	SOIC20-303B	1.49	M1-UN-DP48	4.75 beta	ASM08SG ASM08SHA SM08SG SM08SHA	8.0 beta	AS-08-08- 03S-3YAM	7.1	SDP-UNIV- 20S0/200
AT26DF161A	SOIC (Wide)	–	–	2.06	M1-UN-DP48	4.75 beta	ASM08SG ASM08SHA SM08SG SM08SHA	8.3	AS-08-08-03S- 3YAM	7.1	SDP-UNIV- 20S0/200
AT26DF321	8-SOIC	–	–	2.06	M1-UN-DP48	4.75 beta	ASM08SG ASM08SHA SM08SG	8.3	AS-08-08-03S- 3YAM	7.1	SDP-UNIV- 20S0/200
	16-SOIC	–	–	2.06	M1-UN-DP48	4.75 beta	ASM16S ASM18S ASM20S	8.3	AS-28-28-03S- 6-GANG	–	–





Device	Package	Needham's Electronics Programmer: EMP 30/31/300		Hi-Lo Systems Programmer: ALL-100		BP Microsystems Programmer: BP-1400/1600/ 17x0/2x00/3x00/4x00		Data I/O Corp. Programmer: Unisite/Autosite/2900/3900		Minato Programmer: 1881XP/UXP	
		Windows® S/W Ver.	Hardware	Software	Hardware	Windows® S/W Ver.	Hardware	S/W Ver.	Hardware	S/W Ver.	Hardware
AT45DB011B	SOIC	1.2 SP5 AP8	DIP48/ SO200-20- 303B	1.49	M1-UN-DP48	4.28.0	ASM08SB SM08SB SM24S	6.8	SOIC-22	7.1	SDP-UNIV- 20S0/200
	TSSOP	1.2 SP5 AP8	DIP48-305A	1.49	M1-UN-DP48	4.28.0	ASM24TS SM24TS ASM16T SM16T	6.8	PPI-1203	–	–
	CBGA	1.2 SP5 AP8	EBGA25-301A	–	–	–	–	Beta	AS-09-20- 01BG-6- DUAL	–	–
AT45DB021D	MLF	–	–	–	–	–	–	beta 8.6	USPIN-84	–	–
	SOIC (Narrow)	–	–	–	–	–	–	beta 8.6	USPIN-84	–	–
	SOIC (Wide)	–	–	–	–	4.75	ASM08SG ASM08SHA SM08SHB	beta 8.6	USPIN-84	–	–
AT45DB021B (EOL)	8-SOIC	1.2 SP5 AP8	DIP48/ SO200-20- 303B	1.49	M1-UN-DP48	4.28.0	ASM08SB SM08SB SM24S	6.8	SOIC-22	7.1	SDP-UNIV- 20S0/200
	28-SOIC	1.2 SP5 AP8	SOIC28B-301A	1.49	M1-UN-DP48	4.28.0	SM28S SM28SA ASM28SA	6.8	SOIC-35	7.1	SDP-UNIV- 28S0/300
	TSOP	–	–	1.49	M1-UN-DP48	4.28.0	ASM28T SM28T	6.8	PPI-0706	7.1	SDP-UNIV- 28TS
	CBGA	1.3 SP4 AP7	EBGA25 -301A	–	–	–	–	Beta	AS-09-20- 01BG-6- DUAL	–	–

Programmer Support for Atmel Serial Flash Devices

Device	Package	Needham's Electronics Programmer: EMP 30/31/300		Hi-Lo Systems Programmer: ALL-100		BP Microsystems Programmer: BP-1400/1600/ 17x0/2x00/3x00/4x00		Data I/O Corp. Programmer: Unisite/Autosite/2900/3900		Minato Programmer: 1881XP/UXP	
		Windows® S/W Ver.	Hardware	Software	Hardware	Windows® S/W Ver.	Hardware	S/W Ver.	Hardware	S/W Ver.	Hardware
AT45DB041D	MLF	-	-	2.06	M1-UN-DP48	4.75	ASMR08MLFG FX4ASMR08- MLFG SMR08MLFG	beta 8.5	PPI-1304	-	-
	SOIC (Narrow)	-	-	2.06	M1-UN-DP48	4.75	ASM08SN ASM08SR ASM16SA	beta 8.5	AS-08-08-015-3	7.1	SDP-UNIV- 16S0
	SOIC (Wide)	-	-	2.06	M1-UN-DP48	4.75	ASM08SG ASM08SHA ASM08SHB	beta 8.5	AS-08-08-03S- 3YAM	7.1	SDP-UNIV- 20S0/200
AT45DB041B (EOL)	8-SOIC	1.2 SP5 AP8	DIP48/ SO200-20- 303B	1.49	M1-UN-DP48	4.28.0	ASM08SB SM08SB SM24S	6.8	SOIC-22	7.1	SDP-UNIV- 20S0/200
	28-SOIC	1.2 SP5 AP8	SOIC28B-301A	1.49	M1-UN-DP48	4.28.0	SM28S SM28SA ASM28SA	6.8	SOIC-35	7.1	SDP-UNIV- 28S0/300
	TSOP	-	-	1.49	M1-UN-DP48	4.28.0	ASM28T SM28T SM28TM	6.8	PPI-0706	7.1	SDP-UNIV- 28TS
	CBGA	-	-	-	-	4.33.0	Special Adapter ⁽¹⁾	Beta	AS-14-08- 01BG-3	-	-
	CASON	1.5 AP5 SP2	DIP48/ CASON-301A	1.49	M1-UN-DP48	4.54.0 beta	Special Adapter ⁽¹⁾	-	-	-	-





Device	Package	Needham's Electronics Programmer: EMP 30/31/300		Hi-Lo Systems Programmer: ALL-100		BP Microsystems Programmer: BP-1400/1600/ 17x0/2x00/3x00/4x00		Data I/O Corp. Programmer: Flash PAK		Minato Programmer 1881XP/UXP	
		Windows® S/W Ver.	Hardware	Software	Hardware	Windows® S/W Ver.	Hardware	S/W Ver.	Hardware	S/W Ver.	Hardware
AT45DB081D	SOIC (Narrow)	1.2 SP5 AP8	SOIC28-B301A	2.06	MI-UN-DP48	–	–	5.11	FP-PAK-S619-S08	7.1	SDP-UNIV-20S0/200
	SOIC (Wide)	–	–	2.06	MI-UN-DP48	4.75	ASM08SG, ASM08SHA, ASM08SHB	5.08	FP-PAK-S100-S08	7.1	SDP-UNIV-20S0/200
	MLF	–	–	–	–	–	–	5.11	FP-PAK-L298-MLP8	–	–
AT45DB081B (EOL)	28-SOIC	1.2 SP5 AP8	SOIC28-B301A	1.49	SOP28 (ADP-AT45DBXX-S)	4.28.0	SM28S SM28SA ASM28SA	6.8	SOIC-35	7.1	SDP-UNIV-20S0/330
	TSOP	–	–	1.49	TSOP28 (ADP-AT45DBXX-TS)	4.28.0	ASM28T SM28T SM28TM	6.8	PPI-0706	7.1	SDP-UNIV-28TS
	CBGA	–	–	–	–	–	–	Beta	AS-14-08-01BG-3	–	–
	CASON	1.5 AP5 SP2	DIP48/ CASON-301A	1.49	CASON8 (CNV-CASON-DIP8)	4.54.0	Special Adapter ⁽¹⁾	Beta	–	–	–
AT45DB161D	MLF	–	–	1.49	ADP-W45B012-SON	4.75	ASMR08MLFG SHR08MLFG	5.15	FP-PAK-L298-MLP8	7.1	SDP-UNIV-20S0/200
	SOIC	–	–	1.49	CNV-SOP-NDIP16B	4.75	ASM08SG ASM08SHA	5.15	FP-PAK-S100-S08	7.1	SDP-UNIV-20S0/200
	TSOP	–	–	1.49	ADP-AT45DBXXTS	4.75	ASM28T SM28T SM28TM	5.15	FP-PAK-TS84-TSOP28	7.1	SDP-UNIV-28TS

Programmer Support for Atmel Serial Flash Devices

Device	Package	Needham's Electronics Programmer: EMP 30/31/300		Hi-Lo Systems Programmer: ALL-100		BP Microsystems Programmer: BP-1400/1600/ 17x0/2x00/3x00/4x00		Data I/O Corp. Programmer: Flash PAK		Minato Programmer 1881XP/UXP	
		Windows® S/W Ver.	Hardware	Software	Hardware	Windows® S/W Ver.	Hardware	S/W Ver.	Hardware	S/W Ver.	Hardware
AT45DB161B (EOL)	28-SOIC	1.2 SP5 AP8	SOIC28B 301A	1.49	SOP28 (ADP- AT45DBXX-S)	4.28.0	SM28S SM28SA ASM28SA	Use Unisite/3900 Model		7.1	SDP-UNIV- 28S0/330
	TSOP	–	–	1.49	TSOP28 (ADP- AT45DBXX-TS)	4.28.0	ASM28T SM28T SM28TM	Use Unisite/3900 Model		7.1	SDP-UNIV- 28TS
	CBGA	–	–	–	–	–	–	Use Unisite/3900 Model		–	–
	CASON	1.5 AP5 SP2	DIP48/ CASON 301A	WABPP.exe v5.18	CASON8 (CNV-CASON- DIP8)	4.54.0	Special Adapter ⁽¹⁾	5.5	FP-PAK-L251- LAP8	–	–
AT45DB321D	MLF (5 x 6 mm)	1.2 SP5 AP8	SOIC28B 301A	2.06	M1-UN-DP48	4.75	ASMR08MLFG SMR08MLFG	–	–	7.1	–
	MLF (6 x 8 mm)	–	–	2.06	M1-UN-DP48	4.75	ASM08SG ASM08SHA	–	–	7.1	–
	SOIC	1.2 SP5 AP8	TSOP32 301B	2.06	M1-UN-DP48	4.75	SM32TEA SM40TB SM088	5.18	FP-PAK-L251- LAP8 FP-PAK- S100S08	7.1	SDP-UNIV- 20S0/200
	TSOP	–	–	–	M1-UN-DP48	4.54.0	ASM28T SM28T SM28TM	–	–	7.1	SDP-UNIV- 28TS
AT45DB321C (EOL)	TSOP	–	–	1.49	M1-UN-DP48	4.54.0	ASM28T SM28T SM28TM	–	–	7.1	SDP-UNIV- 28TS
	CBGA	–	–	–	M1-UN-DP48	4.54.0	ASM24BGAA SML24BGA	–	–	–	–
	CASON	Beta	DIP48/ CASON 301A	1.49	M1-UN-DP48	4.54.0	Special Adapter ⁽¹⁾	5.11 beta	FP-PAK-L251	7.1	–





Device	Package	Needham's Electronics Programmer: EMP 30/31/300		Hi-Lo Systems Programmer: ALL-100		BP Microsystems Programmer: BP-1400/1600/ 17x0/2x00/3x00/4x00		Data I/O Corp. Programmer: Flash PAK		Minato Programmer 1881XP/UXP	
		Windows® S/W Ver.	Hardware	Software	Hardware	Windows® S/W Ver.	Hardware	S/W Ver.	Hardware	S/W Ver.	Hardware
AT45DB321B (EOL)	28-SOIC	1.2 SP5 AP8	SOIC28B 301A	1.49	M1-UN-DP48	–	–	–	–	7.1	SDP-UNIV- 28SO/330
	TSOP	1.2 SP5 AP8	TSOP32 301B	1.49	M1-UN-DP48	4.28.0	SM32TEA SM40TB SM40TC SM32TC SM56T SM56TB ASM56T ASM40T SM40T ASM48T SM48T ASM32T SM32T ASM32TE SM32TB	5.11	FP-PAK-T310 TSOP32	7.1	SDP-UNIV- 28TS
	CBGA	–	–	–	M1-UN-DP48	4.54.0	ASM45BGA SM45BGA	–	–	–	–
AT45DB642D	CASON	–	–	1.49	CNV-CASON- DIP8	4.75	ASM08CSON CM08CSON SMR08CSON	5.14	FP-PAK-L251- LAP8	–	–
	TSOP	–	–	1.49	ADP-AT45DB- xx-TS	4.75	ASM28T SM28T SM28TM	Use PP100 Model		7.1	SDP-UNIV- 28TS
AT45DB642 (EOL)	TSOP	1.2 SP5 AP8	TSOP40 307B	1.49	TSOP40 (ADP- AT45DB64-TS)	4.28.0	ASM40TA SM48T ASM56T SM40T SM40TB SM40TC SM48T SM56T SM56TB	Use 2900/3900 Model		7.1	SDP-UNIV- 40TS
AT45CS1282 (EOL)	TSOP	1.4 AP5	TSOP48 307B	–	–	4.41.0	ASM40T ASM48T ASM56T SM40T SM40TB SM40TC SM48T SM56T SM56TB	–	–	–	–

Programmer Support for Atmel Serial Flash Devices

Device	Needham's Electronics		Hi-Lo Systems		BP Microsystems		Data I/O Corp.	
	Windows® S/W Ver.	Hardware	Software	Hardware	Windows® S/W Ver.	Hardware	S/W Ver.	Hardware
AT45DCB002D	-	-	2.06	MI-UN-DP48	-	-	5.1	AS-07-28-01DF-6
AT45DCB002 (EOL)	1.3 SP4 AP7	DIP48/ AS-07-28-01DF-6 ⁽²⁾ 305A	2.06	MI-UN-DP48	4.32.0	AS-07-28-01DF-6 ⁽²⁾	5.1	AS-07-28-01DF-6
AT45DCB004D	-	-	2.06	MI-UN-DP48	-	-	5.1	AS-07-28-01DF-6
AT45DCB004C (EOL)	-	-	-	-	-	-	5.1	AS-07-28-01DF-6
AT45DCB004 (EOL)	1.3 SP4 AP7	DIP48/ AS-07-28-01DF-6 ⁽²⁾ 305A	-	-	4.32.0	AS-07-28-01DF-6 ⁽²⁾	-	-
AT45DCB008D	-	-	2.06	MI-UN-DP48	-	-	5.1	AS-07-28-01DF-6
AT45DCB008 (EOL)	1.3 SP4 AP7	DIP48/ AS-07-28-01DF-6 ⁽²⁾ 305A	-	-	4.32.0	AS-07-28-01DF-6 ⁽²⁾	5.1	AS-07-28-01DF-6

- Notes:
1. Please contact BP Microsystems (www.bpmicro.com) for the special adapter.
 2. AS-07-28-01DF-6 (adapter for DataFlash cards) and AS-08-20-01-ML (adapter for CASON package) adapters can be obtained from Emulation Technology (www.emulation.com).

