

LABTOOL-S100

Product Specifications

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Features

1. PC based USB interface serial flash programmer, support 3.3V to 1.8V Flash in VCC and I/O.
2. High programming speed, it can program at 30Mbps, it blank checking, programming and verify a 64 Mb serial flash in 53 second.
3. Support all maker's serial flash chip from 512Kb up to 2Gb.
4. USB interface : support both USB 1.1 and 2.0.
5. Friendly user interface, it has same Labtool family user interface.

6. Device insertion / continuity check before programming.
7. Mass production mode and quantity / Max failure rate alarm for production.
8. Support Windows XP(32/64bit) / Vista (32/64bit) / 7(32/64bit)
9. On board serial flash ISP programming through flat cable. (AEC_SPI-Flash-ISP_A1.0_2013-03-14.pdf)
10. Support all package through adapters (refer to LabTool-S100 adapter list)
11. Affordable price with unbeatable performance.
12. LabTool-S100 using the internal USB power, don't need extra power supply.
13. Multi-LabTool-S100 can be connect to one PC through USB Hub, with this set up.
It become a Asynchronous gang programmer in production.

LabTool-S100 performance

[PC with Intel(R) Core(TM) 2 Duo CPU E7500 @ 2.93GHz / 3.5GB RAM / Windows XP SP3 / USB 2.0 High Speed]

Vendor	Device	Blank	Program	Verify
Numonyx	M25PE10	0.68 sec	1.84 sec	0.68 sec
Numonyx	M25PE20	0.76 sec	2.89 sec	0.76 sec
Numonyx	M25PE40	0.87 sec	4.64 sec	0.86 sec
Numonyx	M25PE80	1.04 sec	8.79 sec	1.12 sec
Macronix	MX25L1605D	1.37 sec	12.31 sec	1.39 sec
Macronix	MX25L3255D	2.07 sec	23.59 sec	2.11 sec
Macronix	MX25L6455E	3.51 sec	44.81 sec	3.51 sec
Macronix	MX25L12845E	6.26 sec	88.31 sec	6.26 sec
Macronix	MX25L25635E	12.39 sec	165.73 sec	12.61 sec
Spansion	S25FL512S-MF-01	22.25 sec	155.21 sec	22.54 sec

[PC with Intel(R) Core(TM) 2 Duo CPU E7500 @ 2.93GHz / 3.5GB RAM / Windows XP SP3 / USB 3.0 High Speed]

Vendor	Device	Blank	Program	Verify
Numonyx	M25PE10	0.39 sec	1.43 sec	0.37 sec
Numonyx	M25PE20	0.42 sec	2.34 sec	0.46 sec
Numonyx	M25PE40	0.56 sec	4.06 sec	0.61 sec
Numonyx	M25PE80	0.71 sec	8.26 sec	0.75 sec
Macronix	MX25L1605D	1.18 sec	10.34 sec	1.17 sec
Macronix	MX25L3255D	1.84 sec	20.46 sec	1.96 sec
Macronix	MX25L6455E	3.29 sec	39.79 sec	3.25 sec
Macronix	MX25L12845E	5.91 sec	75.65 sec	5.91 sec
Macronix	MX25L25635E	11.56 sec	144.01 sec	11.62 sec
Spansion	S25FL512S-MF-01	21.84 sec	131.42 sec	22.53 sec

[Notebook with Intel(R) Core(TM) i7-2630QM CPU @ 2.00GHz / 8GB RAM / Windows 7 64-bit / USB 3.0 High Speed]

Vendor	Device	Blank	Program	Verify
Numonyx	M25PE10	0.34 sec	1.15 sec	0.34 sec
Numonyx	M25PE20	0.39 sec	2.05 sec	0.39 sec
Numonyx	M25PE40	0.46 sec	3.72 sec	0.46 sec
Numonyx	M25PE80	0.65 sec	7.06 sec	0.65 sec
Macronix	MX25L1605D	1.01 sec	9.99 sec	0.93 sec
Macronix	MX25L3255D	1.68 sec	18.11 sec	1.68 sec
Macronix	MX25L6455E	2.99 sec	30.98 sec	3.05 sec
Macronix	MX25L12845E	5.61 sec	65.44 sec	5.58 sec
Macronix	MX25L25635E	10.87 sec	125.86 sec	10.89 sec
Spansion	S25FL512S-MF-01	21.31 sec	100.85 sec	21.35 sec

Device support

1. Flash memory : include SPI flash and other serial flash technology
2. Device data width : one bit width

File format

Binary, Intel Hex, Intel Ext Hex, Motorola S, HP64000 ABS, Straight Hex

Interface to PC

1. Accept USB 1.1 or USB 2.0
2. PC system requirements
3. Operating system : Windows XP/Vista/7 32-bit and 64-bit
4. Processor : Pentium and above
5. Memory : 256M and above
6. Hard Disk : over 100M free space
7. CD ROM driver
8. Interface : USB 1.1 or 2.0 interface

General

1. Power consumption : 1W @5V/200mA USB 2.0 bus power
2. Operation temp : 5 to 45 degree C
3. Shipment Weight : 0.25 Kg with adapter mod

Order information

LABTOOL-S100	PC based Serial Flash programmer with USB interface include 8 pin 150 mil SOIC, 1.27mm pitch serial flash adapter
ADP-DIP-001	Adapter for 8 pin DIP Serial Flash (25 Series) (DIP Socket)
ADP-SOIC-1601	Adapter for 8 pin 150 mil SOIC, 1.27mm pitch Serial Flash (25 Series) (Open-Top Socket)
ADP-SOIC-2001	Adapter for 8 pin 208 mil SOIC, 1.27mm pitch Serial Flash (25 Series) (Clam-Shell Socket)
ADP-SOIC-2801	Adapter for 16 pin 300 mil SOIC, 1.27mm pitch Serial Flash (25 Series) (Clam-Shell Socket)
ADP-TSSOP-1601	Adapter for 8 pin 173mil TSSOP, 0.635mm pitch Serial Flash (25 Series) (Clam-Shell Socket)
ADP-QFN-0801	Adapter for 8 pin QFN (WSON) 5mm x 6mm with 1.27mm pitch Serial Flash (25 Series) (Open-Top Socket)
ADP-QFN-0802	Adapter for 8 pin QFN (WSON) 6mm x 8mm with 1.27mm pitch Serial Flash (25 Series) (Clam-Shell Socket)
ADP-QFN-0803	Adapter for 8 pin QFN (WSON) 2mm x 3mm with 0.5mm pitch Serial Flash (25 Series) (Clam-Shell Socket)
ADP-QFN-0804	Adapter for 8 pin QFN (WSON) 4mm x 4mm with 0.8mm pitch Serial Flash (25 Series) (Open-Top Socket)
ADP-QFN-0806	Adapter for 8 pin QFN (WSON) 3mm x 4mm with 0.8mm pitch Serial Flash (25 Series) (Clam-Shell Socket)
ADP-EBGA-2401	Adapter for 24 pin EBGA, 6mm x 8mm, 1.0 mm pitch with 6x4 ball matrix Serial Flash (25 Series) (Open-Top Socket)
ADP-EBGA-2402	Adapter for 24 pin EBGA, 6mm x 8mm, 1.0 mm pitch with 5x5 ball matrix Serial Flash (25 Series) (Clam-Shell Socket)