2023 V1.0

SF600Plus-G2

SPI NOR Flash Programmer

www.dediprog.com



SF600Plus-G2 is a high-speed Serial NOR/NAND Flash programmers with In Circuit Programming (update the SPI Flash soldered on board) and Standalone programming (update the SPI Flash in the socket adaptor) Mode. With DediProg SF software and the USB, it offers friendly user interfaces and powerful features.

The newly designed SF600Plus-G2 is the upgraded version of SF600 and SF600Plus, which greatly increases the programming efficiency with the SOC architecture of FPGA. Other than the original functions of the SF600/S600Plus, it can also support SPI NAND, which will be convenient for the developer when programming.

Features

- High speed USB and high SPI performance; the USB and Stand-alone mode support any volume of the SPI Flash on the market
- Support 1.2V low voltage IC.
- Start button feature: Able to Batch when connecting to the software.
- Signal conflict protections
- Multi-Programmers Capability through USB.
- Programmer Index displays on the programmer
- Support 2 CS pins
- Stand-Alone Mode: Support Start button programming and Control Port for remove control programming
- Support WIN8 and above.
- Support both 32 and 64bit OS.
- Support Single/Dual Multiple Dies
- Support Single/Dual/Quad/Octal. IO
- Able to upgrade to SF600Plus-G2U

SF600Plus-G2 Performance Reference

USB Mode	Memory							
Reference IC	W25Q80JVSIQ	W25Q16VSIG	W25Q32VFIG	W25Q64FVBIG	MX25L12873FM2I	MX25L25645GMI	MX25L51245GMI	MX66L1G45JMI08
Density	**8Mb**	**16Mb**	**32Mb**	**64Mb**	**128Mb**	**256Mb**	**512Mb**	**1Gb**
Program+Verify (25Mhz,Quad IO)	6.3s	12.5s	18.7s	22.2s	41.9s	46.6s	96.8s	203.0s

SF600Plus-G2 Quad Read Time Comparison Chart (High performance saves up to 50% read time)

Reference IC	W25Q80JVSIQ	W25Q16VSIG	W25Q32VFIG	W25Q64FVBIG	MX25L12873FM2I	MX25L25645GMI	MX25L51245GMI	MX66L1G45JMI08
Density	**8Mb**	**16Mb**	**32Mb**	**64Mb**	**128Mb**	**256Mb**	**512Mb**	**1Gb**
SF600/SF600Plus	2.5s	2.4s	3.3s	4.9s	8.2s	15.8s	29.6s	57.2s
SF700	2.4s	2.3s	3.0s	4.5s	7.3s	14.0s	26.1s	50.3s
SF600Plus-G2	1.5s	1.4s	1.8s	2.5s	4.1s	7.5s	13.8s	26.2s

*Please note the actual program & verify time will depend on the IC types, please refer to the IC specification before programming.

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Specification

Hardware

Architecture	High Performance ARM and FPGA architecture
Programming Interface	ISP Programming (ISP adaptor)/Stand-alone (Socket Adaptor) Mode
Support IC Kinds	Serial NOR Flash/Serial NAND Flash
Support IC Packages	DIP, SOP, SSOP, TSOP, PLCC, QFN, LQFP, BGA, etc.
Operation Interface	Busy/Pass/Error LED, Start key, Power LED, and IO Port
PC Connection Interface	High speed USB 2.0 TYPE-C, Ethernet Port
Embedded Memory	4GB memory
Hardware Protection	Overcurrent and ESD Protections
VCC Range	1.2 to 5.5V
VPP Range	1.6 to 12.0V

Software

Operating Software	DediProg Engineering/DediProg Production/DpCmd
Operating System	Windows 8/8.1/10/11, Linux (SPI NOR only)
Support File Format	Binary, Intel Hex, Motorola, and ROM, etc.
Programming Functions	Blank Check, Erase, Program, Verify, Engineering mode and status register modify
Extra Function	Multiple SF600Plus-G2 Capability

Power

USB 5V or DC 5V/1A

Dimension (W x D x H)

135 x 75 x 22mm

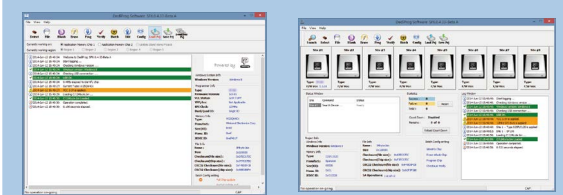
Weight

140g (without socket adaptor)

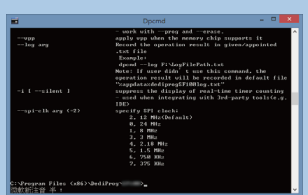
Standard Package

1. SF600Plus-G2 Programmer x 1
2. USB 2.0 100cm Cable (A Male -C Male) x 1
3. Power Adapter (Include US and EU plugs) x 1
4. SF600 ISP Cable x 1
5. SF100 ISP Cable x 1
6. SF600 Universal Adaptor x 1
7. Pin 2x10 to 2x10 Cable x 1
8. Pin 2x4 to 2x4 Cable x 1
9. ProgMaster Socket Bottom board (SF600Plus-G2) x1
10. Product Card (Software Download QRcode) x 1

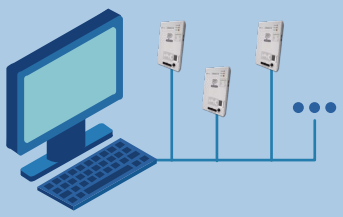
Window GUI



Command Line



Multiple SF600Plus-G2



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