2026 V1.0

SF600Plus-G2

SPI NOR Flash Programmer

www.dediprog.com



The SF600Plus-G2 is a high-speed Serial NOR/NAND Flash programmer supporting both in-circuit programming (updating SPI Flash soldered on the PCB) and standalone programming (updating SPI Flash placed in the socket adapter) modes. Combined with DediProg SF software and USB connectivity, it provides an intuitive user interface and powerful programming features.

The newly designed SF600Plus-G2 is an upgraded version of the SF600 and SF600Plus, featuring a high-performance FPGA-based SoC architecture that significantly improves programming efficiency. In addition to the original functions of the SF600/SF600Plus, it also supports SPI NAND, providing greater convenience for developers during the programming process.

Features

- High speed USB and high SPI performance; the USB and standalone mode support any volume of the SPI Flash on the market.
- Support IC Kinds: SPI NAND/SPI NOR.
- Support 1.2V low voltage IC.
- In-Circuit Programming: Program on board SPI Flash.
- Off-line Programming: Program SPI Flash in the socket. (Support ProgMaster's and NuProgPlus' sockets)
- Start button feature: Supports batch programming when connected to the software.
- Built-in protection features (overcurrent and ESD protection mechanisms).
- Supports multiple programmers via USB.
- Programmer index display on each programmer.
- Support 2 CS pins.
- Standalone mode: Support Start button programming and remote control programming via the Control Port.
- Support Win8 and above.
- Support both 32 and 64-bit operating systems.
- Support Single/Dual/Multiple Dies.
- Support Single/Dual/Quad/Octal I/O.

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 depends on the IC type. 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)/Standalone (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)

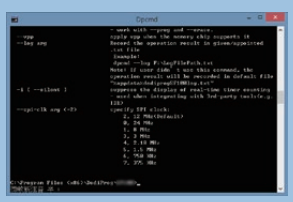
Standard Package

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. NuProgPlus Socket Bottom board (SF600Plus-G2) x1
10. Product Card (Software Download QRcode) x 1

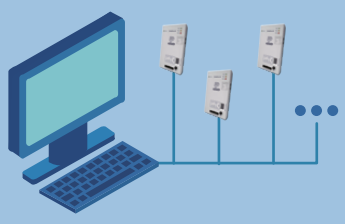
Window GUI



Command Line



Multiple SF600Plus-G2



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