



SIM Flash Programmer v3.2 Pro

Full contents
Professional edition

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Information is provided for informational purposes only.

Purpose

A programming device SIM Flash Programmer is designed for programming chips module SIM Flash Novomatic 64mb and 32 mb 80 pin. The programmer can work with the chip set operating at voltages 3.3-5c. Programmer SIM Flash programmer v3 supports in-circuit programming chip AT89S52, AT89S53, AT89S8252, AT89S8253 in the user's device (ISP mode In-System Programming). The programmer is designed to run on IBM PC-compatible computers. Is compatible with the following operating systems: Windows 95/98, Windows NT/2000, Windows XP, OS / 2, Windows Vista, Windows 7, Linux 9build.

Power and control unit is via USB, which allows the programmer to connect to any modern computer.

Complete set:

- Programmer SIM Flash Programmer v3
- Management software (basic module)
- Cable USB

BASE IN DELIVERY NOT INCLUDED

Hardware

Dimensions: 172x77x25 (without interface cable). Communication is performed via a standard USB port. Additional power supply is not required. Work carried out by three-color LED.



Software

The software supports many input formats: BIN-and HEX-files, JEDEC, and also contains several full-screen editors and Calculator MD5. Built-in database to automatically determine the version of Build firmware version of the GS and the build date.

The option of checking in 3 hash-sums:

- MD5
- SHA1
- AGI CRC

Installing the Driver:

- 1 Connect the programmer to port USB, it is automatically determined.
- 2 Insert the software CD into the drive.
- 3 Setup Wizard will ask for your driver location. Press NEXT and it will automatically find the correct driver for your OS.
- 4 Install the program by pressing Control SETUP.exe in the root directory of the disk with the software.

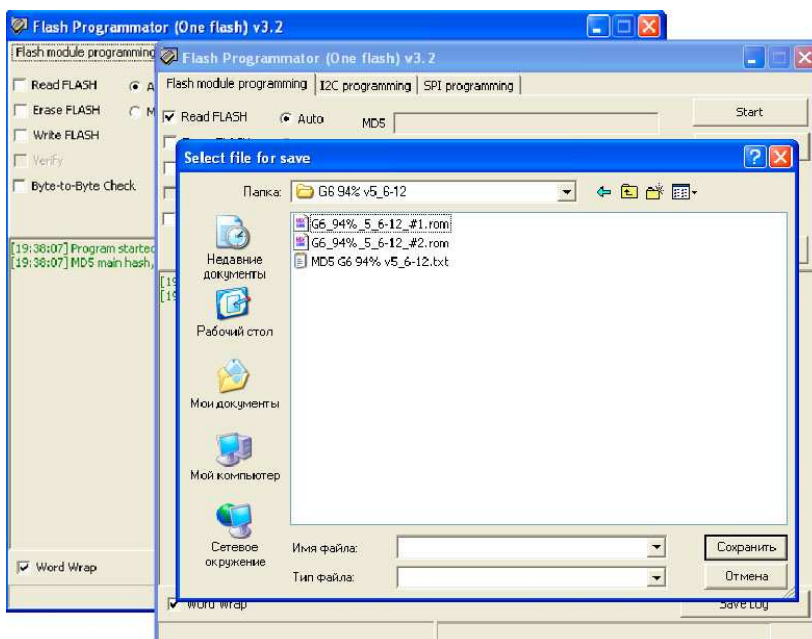
In the event of damage to the programming of the crystal or the need to update software You can contact the administration www.slot-tech.ru

Control commands SimFlash

Main software programmer bundled allows a standard set of commands (Romservis +). Software allows the programmer read, write and erase the flash-memory chips. For visual control the user is color event log indicating the start time end and duration of each operation. At startup, the program automatically loads into memory INI module with hash-sums and identities of producers chips.

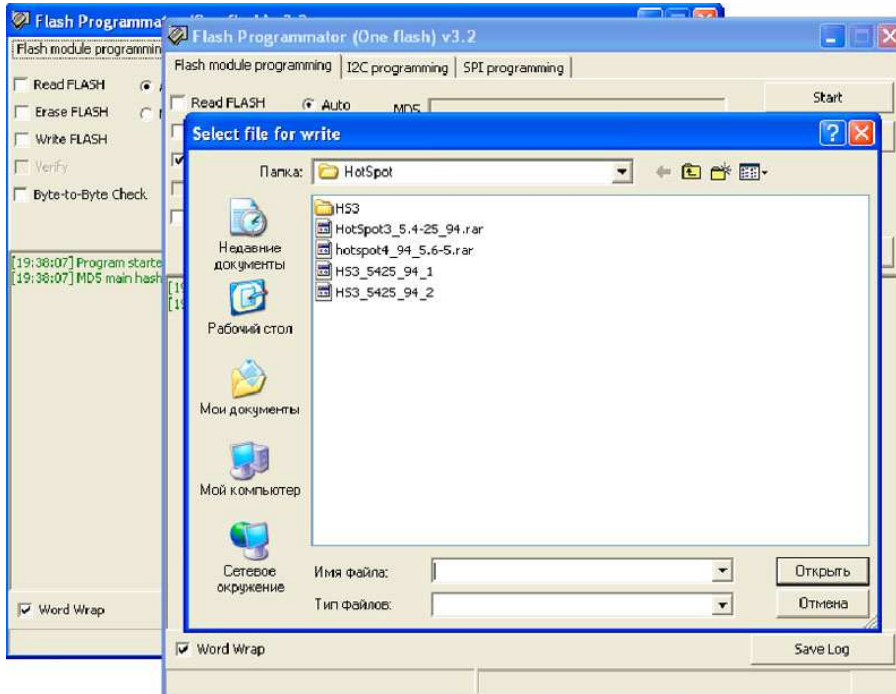
Read SimFlash

To read data from SIM Flash plug the module into the slot and select Read FLASH. For comparison, the hardware performance data in a module, enable Byte-to-byte Check. Set the file name in the dialog box and click START. Type module and the chip is determined automatically. After finishing the reading software report on completion of the work and suggest the next step.



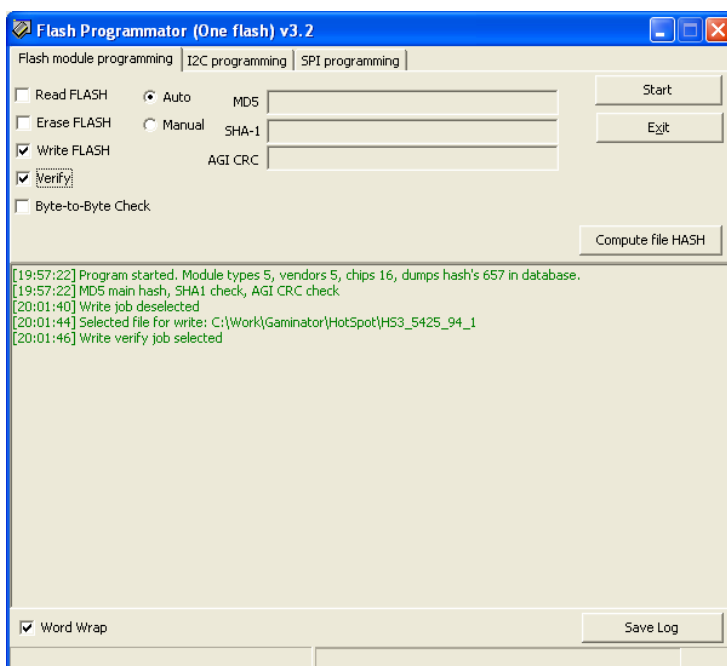
Writing and erasing SimFlash

To erase and record, point to SIM Flash Erase FLASH and Write FLASH. Ask the file name in the dialog box and click START. After graduating from operations will see a message on shutdown.



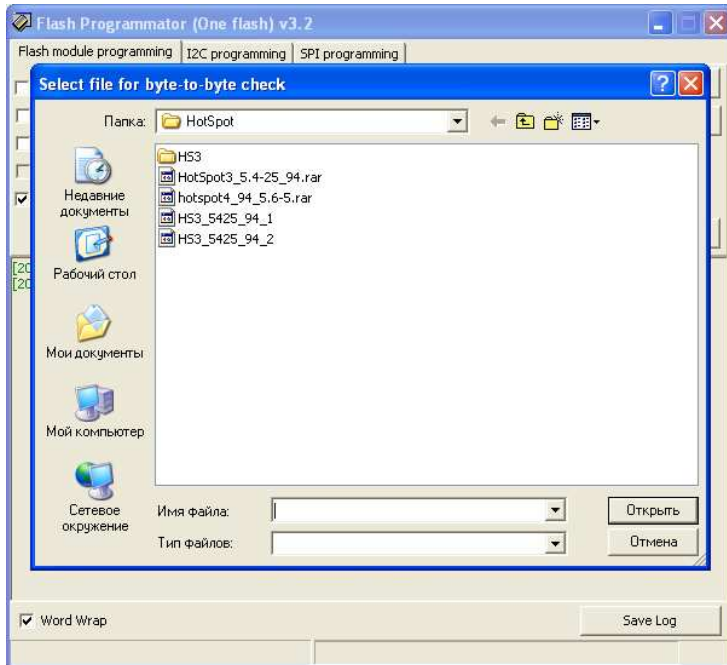
Verify

After selecting the Write Flash, opens the possibility of selecting the Verify. If this option is enabled, recording will be made after checking byte contents of the module with the firmware file.



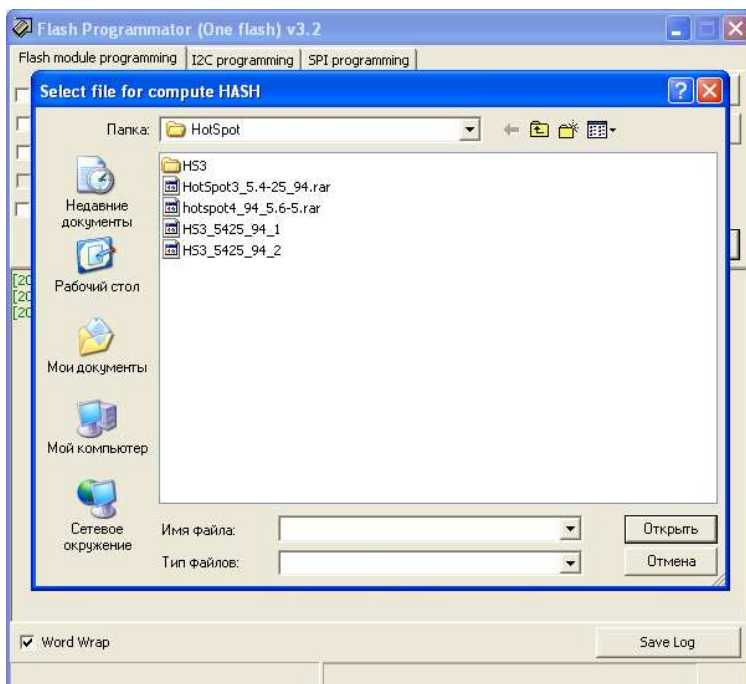
Byte-to-byte check

Choosing this item opens a dialog box where you specify which file will be done one byte at reconciliation with the contents of the module.

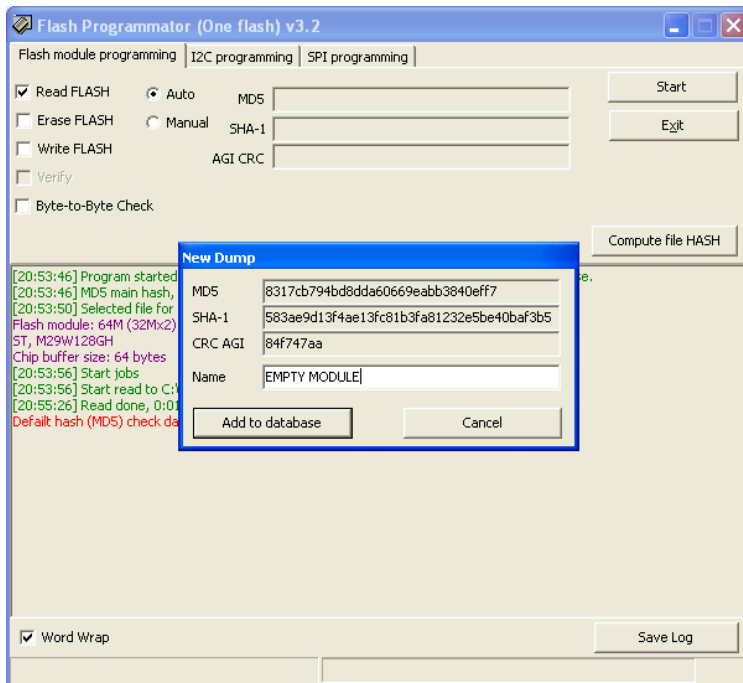


Compute HASH

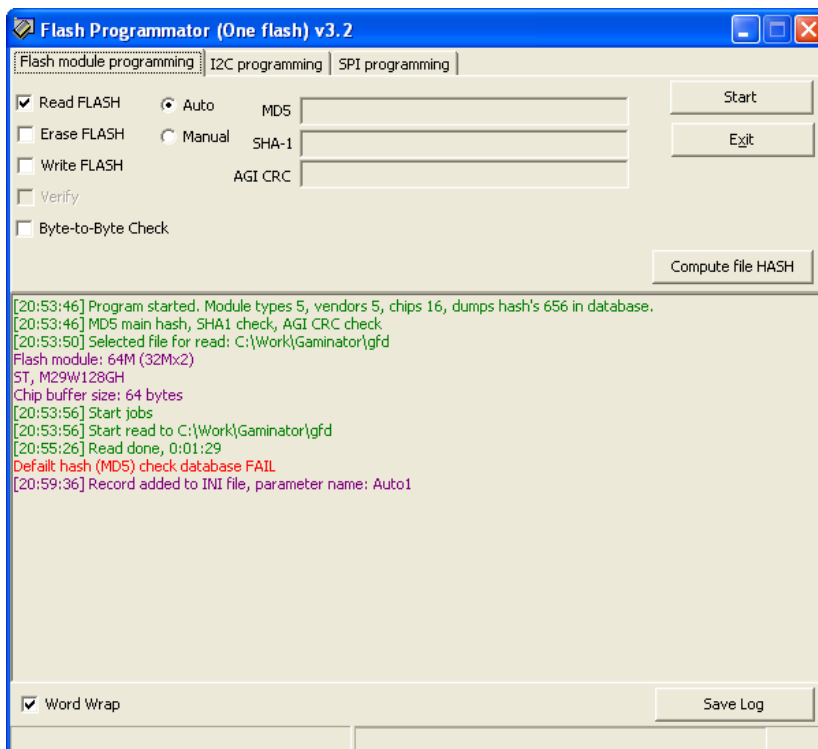
After clicking on this button opens a dialog box in which you want to specify a file for which the checksum MD5, SHA1 and AGI CRC.



After reading the module or check summing the file is checked with a database of checksums stored in the INI file. If no match is found, you can make an entry into the database by specifying a name.

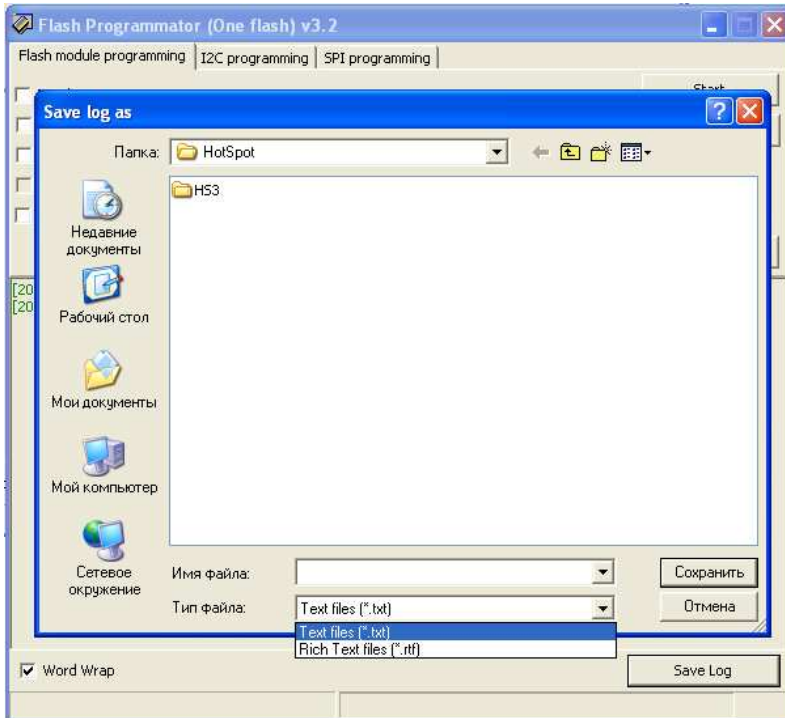


These checksums match the pure 64MB module.



After adding a new record is created in the section [HASH] INI file name parameter is automatically determined (in this case - Auto1)

You can save the log by pressing Save Log Supported formats: TXT, RTF



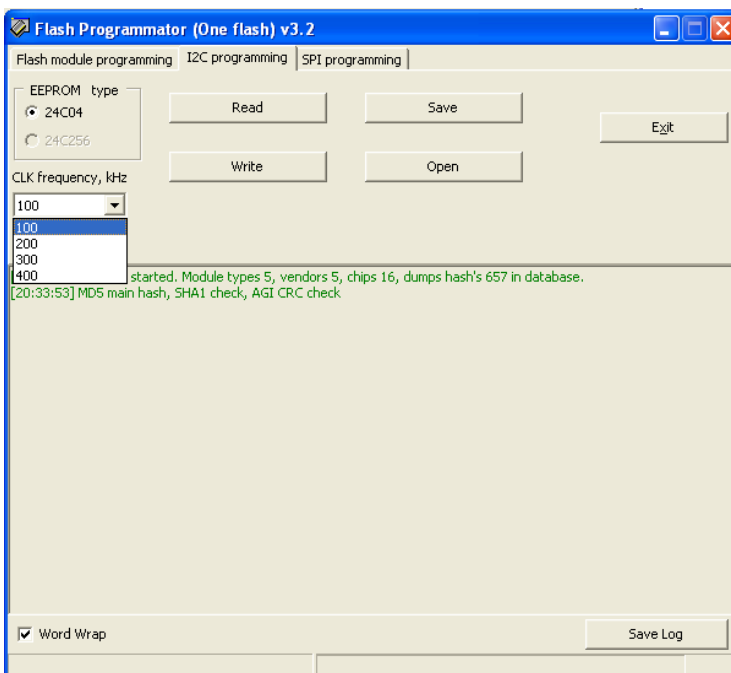
I2C programming

Read - read the contents of the buffer chip

Write - write buffer to chip

Open - read the file into the buffer. Supported formats: BIN, Intel HEX Save - conservation buffer to a file

You can choose the frequency of entries (100, 200, 300 or 400 kHz)



SPI programming

Supported microcontrollers (MCU): AT89S52, AT89S8252, AT89S53 and AT89S8253. 14-pin connector with reverse polarity protection.

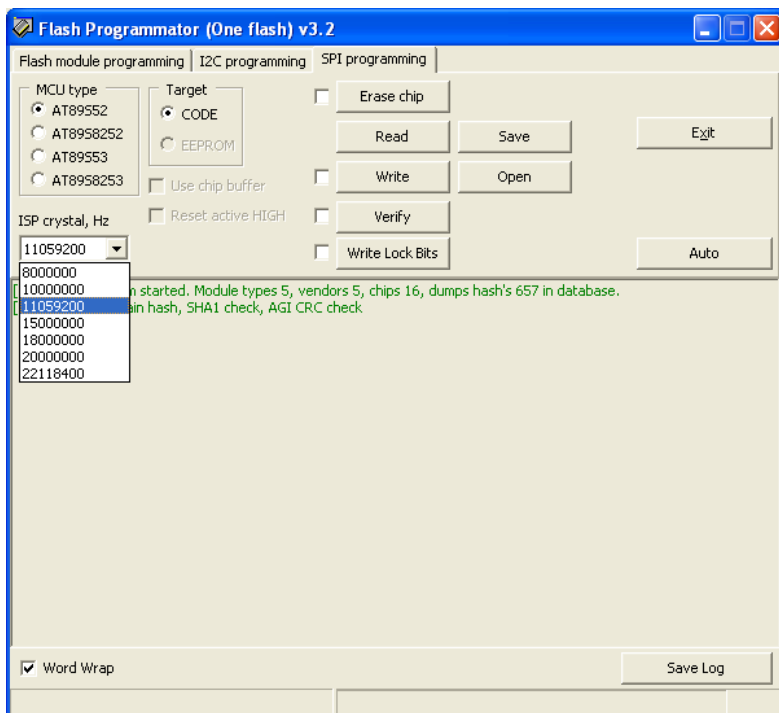
- Ability to work a few programmers under one computer (multiprogram mode).

MCU type - select the type of microcontroller

Target - the working area of the microcontroller

Write Lock Bits - protection of the contents of the memory of the microcontroller reading Verify - checking records

Auto - sequential execution of operations tagged



You can choose the frequency of the quartz crystal used in the scheme. Note that sometimes lowering the real rate would provide a more stable programming.

Error Codes Programmer

USB-level error

"Device not found" - the programmer cannot be found

"Device set configuration error" - cannot install the device configuration "Device

"Interface error" - error interface USB-devices

"Device error" - read / write USB channel failed

"Can't read write error answer" - cannot get a decryption error record (USB)

"Can't reset flash - device not ready"

"Can't erase flash - device not ready"

"Read: Address set error"

"Read: Chip select error"

"Read error"

"Write: Address set error"

"Write: Chip select error"

"Write error"

Programmer error

"The module is unknown or is missing. To continue?" - No SIM Flash module or creepy leftist

"Flash module unknown. To try as standard 64M module?" - Unknown module

"Chip unknown. To try as standard flash chip?" - Manufacturer defined, but the chip is not in the database

"Chip and manufacturer unknown. To try as standart flash chip?" - ID of the manufacturer and the chip is not in the database

"Flash erase error"

"File open error"

"Write error"

Modification of the INI file

INI file is a basic setup Fail management program programmer. It is included in the base software update version 3.2 (3.3pro) Fail in the root directory management program (by default C: \ program files \). In it, you can specify the types of expansion modules to support the producers, container types, changing the characteristics of the read / write, comparing the original with a given MD5, etc.

INI file is constantly updated by the manufacturer. You can upgrade it with a resource to support the programming www.pro.slot-tech.ru

Секция [Modules] Содержит описание типов модулей

[Modules]

module0 = ID,SIZE,TWO_BANKS ...

ID - идентификатор модуля в шестнадцатеричном виде SIZE - емкость модуля {16|32|64} Мбайт

TWO_BANKS - организация: два банка или один {1|0}

Секция [Vendors] Описание производителей. Используется в информационных целях

[Vendors]

mnf0 = NAME,ID ...

NAME - Имя производителя микросхемы

ID - шестнадцатеричный код производителя (ID0 из идентификаторов микросхемы)

Секция [Chips] Описание используемых микросхем

[Chips]

chip0 = NAME,CHIP_ORG,WRITE_METHOD,USING_UBYPASS,ID0,ID1[,ID2,ID3] ...

NAME - название микросхемы CHIP_ORG - организация микросхемы:

0 - 8bit

1 - 16bit

2 - 32bit

WRITE_METHOD - способ записи

0 - word by word

1 - use buffer

2 - use extended buffer

3 - use buffer size from CFI

USING_UBYPASS - использование усеченных команд

0 - не используется

1 - включено

IDx - идентификаторы микросхемы (начиная с Vendor ID). Количество байтов ID - (2 <= IDs <= 4)

Секция [Hash] База хэш-сумм прошивок

[Hash]

dump = NAME,HASH_MD5,HASH_SHA1,AGI_CRC ...

NAME - название прошивки

HASH_MD5 - 32 символа в 16-ричном виде HASH-суммы MD5 HASH_SHA1 - 40 символов в 16-ричном виде

HASH-суммы SHA1 AGI_CRC - 8 символов в 16-ричном виде AGI CRC

Имя значения (в данном случае dump) программой не обрабатывается, можно использовать любое имя

Секция [Setup] Содержит настройки проверки хэшей в базе

[Setup] MD5_check = M SHA1_check = 1 AGI_CRC_check = 1

Значения параметров могут быть {M|1|0}

Один из параметров всегда должен быть M (Main)

Метод проверки таков. В базе хэш-сумм ищется сумма, указанная как Main. При удачном поиске сверяются остальные типы хэшей, указанные как "1". Сумма, помеченная как "0", не проверяется

VISU update

Comparison module can automatically compare the source VISU way to read files from the firmware version specified when reading the dump. For comparison, control code VISU need to specify the control program version and kernel version MULTIGAMINATOR KERNEL (example: G16, kernel 5.5-10 module № 1, Read readme Fail) and run the decompiler IDApro. VISU module comparison is not included in standard delivery programmer. You can update it automatically from a resource to support the programming www.pro.slot-tech.ru

Dear Colleague

If you have any problems or other unresolved issues related to the use of our hardware and software, send a request via the order form Quick Reply, we will be happy to assist you.

If you need advice on how to use equipment from AGI Novomatic, please contact our specialists by sending a request through the order form and get free advice on the design and installation of any systems management and control over your hardware. Our reputation for quality design and production of microprocessor technology is extremely important to us. Therefore, we solely responsible approach to each new project. You can be sure that the contracts to which is our signature, will be carried out with maximum quality and a target date.

Best regards

The Novoline Network Solutions Team

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