Elprotronic Inc.

FlashPro-CM FlashPro-LM FlashPro-STM

- Full Speed USB 1.1 (12 Mb/s) communication interface.
- Up to 60 USB-FPA can be connected to one PC.
- Support Cortex M3 / M4 Stellaris, TIVA, MCUs from Texas Instruments
- Support Cortex M4 Chipcon CC2538 MCU from Texas Instruments
- Support Cortex STM32 MCU from ST Microelectronics
- User defined programming sequence uses script file. No programming technique and language knowledge is required.
- No code size limitations.
- Lock security bit capability.
- **■** Target device can be powered from the programming adapter (programmable Vcc from 1.8V to 3.6V step 0.1V) or from external source (1.8V to 3.6V).
- Easy to use WindowsTM based software.
- Programmer accept TI (*.txt), Motorola (*.s19, *.s28, *.s37) and Intel (*.hex) data files for programming.
- Defined Check Sum calculation (Sum, CRC16, CRC32). Up to four CS banks can be specified.
- Lock setup capability, useful in production.
- Unique serial number assign capability. Software package can assign and automatically increment the serial number, model type and revision. Serial Number with or without an automatically inserted current date can be stored in the FLASH memory in HEX, BCD or ASCII format. The serial number can be assigned from the user defined list in the file.
- Log file capability allowing to review information about the flashed target devices.
- Multi-FPA API-DLL software package can control up to 60 FlashPro-CM FPAs (working simultaneously) from other programs. Using up to 60 FlashPro-CM FPAs the programming time of the 60 target devices is almost the same like programming time of the single target devices programmed from one FPA. Perfect for production usage.
- Source code for the Multi-FPA API-DLL demo written in Visual C++.net. Download fully functional software from our website and try it.
- Programmer has been tested and found to comply with FCC and CE requirements. See attached reports:

List of supported devices - Stellaris and TIVA from Texas Instruments (supported by FlashPro-LM and FlashPro-CM)

Cortex-M3 X00 Series

LM3S101, LM3S102, LM3S300, LM3S301, LM3S308, LM3S310, LM3S315, LM3S316, LM3S317, LM3S328, LM3S600, LM3S601, LM3S608, LM3S610, LM3S611, LM3S612, LM3S613, LM3S615, LM3S617, LM3S618, LM3S628, LM3S800, LM3S801, LM3S808, LM3S811, LM3S812, LM3S815, LM3S817, LM3S818, LM3S828

Cortex-M3 1000 Series

LM3S1110, LM3S1133, LM3S1138, LM3S1150, LM3S1162, LM3S1165, LM3S1166, LM3S1332, LM3S1435, LM3S1439, LM3S1512, LM3S1538, LM3S1601, LM3S1607, LM3S1608, LM3S1620, LM3S1621, LM3S1625, LM3S1626, LM3S1627, LM3S1635, LM3S1636, LM3S1637, LM3S1651, LM3S1751, LM3S1776, LM3S1811, LM3S1816, LM3S1850, LM3S1911, LM3S1918, LM3S1937, LM3S1958, LM3S1960, LM3S1968, LM3S1969, LM3S1B21, LM3S1C21, LM3S1C26, LM3S1C58, LM3S1D21, LM3S1D26, LM3S1F11, LM3S1F16, LM3S1G21, LM3S1G58, LM3S1H11, LM3S1H16, LM3S1J11, LM3S1J16, LM3S1N11, LM3S1N16, LM3S1P51, LM3S1R21, LM3S1R26, LM3S1W16, LM3S1Z16

Cortex-M3 2000 Series

LM3S2110, LM3S2139, LM3S2276, LM3S2410, LM3S2412, LM3S2432, LM3S2533, LM3S2601, LM3S2608, LM3S2616, LM3S2620, LM3S2637, LM3S2651, LM3S2671, LM3S2678, LM3S2730, LM3S2739, LM3S2776, LM3S2793, LM3S2911, LM3S2918, LM3S2939, LM3S2948, LM3S2950, LM3S2965, LM3S2B93, LM3S2D93, LM3S2U93.

Cortex-M3 3000 Series

LM3S3634, LM3S3651, LM3S3654, LM3S3739, LM3S3748, LM3S3749, LM3S3826, LM3S3J26, LM3S3N26, LM3S3W26, LM3S3Z26

Cortex-M3 5000 Series

LM3S5632, LM3S5651, LM3S5652, LM3S5656, LM3S5662, LM3S5732, LM3S5737, LM3S5739, LM3S5747, LM3S5749, LM3S5752, LM3S5762, LM3S5791, LM3S5951, LM3S5956, LM3S5B91, M3S5C31, LM3S5C36, LM3S5C51, LM3S5C56, LM3S5D51, LM3S5D56, LM3S5D91, LM3S5G31, LM3S5G36, LM3S5G51, LM3S5G56, LM3S5K31, LM3S5K36, LM3S5P31, LM3S5P36, LM3S5P3B, LM3S5P51, LM3S5P56, LM3S5R31, LM3S5R36, LM3S5T36, LM3S5U91, LM3S5Y36

Cortex-M3 6000 Series

LM3S6100, LM3S6110, LM3S6420, LM3S6422, LM3S6432, LM3S6537, LM3S6610, LM3S6611, LM3S6618, LM3S6633, LM3S6637, LM3S6730, LM3S6753, LM3S6911, LM3S6918, LM3S6938, LM3S6950, LM3S6952, LM3S6965, LM3S6C11, LM3S6C65,

LM3S6G11, LM3S6G65

Cortex-M3 8000 Series

LM3S8530, LM3S8538, LM3S8630, LM3S8730, LM3S8733, LM3S8738, LM3S8930, LM3S8933, LM3S8938, LM3S8962, LM3S8970, LM3S8971, LM3S8C62, LM3S8G62

Cortex-M3 9000 Series

LM3S9781, LM3S9790, LM3S9792, LM3S9971, LM3S9997, LM3S9B81, LM3S9B90, LM3S9B92, LM3S9B95, LM3S9B96, LM3S9BN2, LM3S9BN5, LM3S9BN6, LM3S9C97, LM3S9CN5, LM3S9D81, LM3S9D90, LM3S9D92, LM3S9D95, LM3S9D96, LM3S9DN5, LM3S9DN6, LM3S9G97, LM3S9GN5, LM3S9L71, LM3S9L97, LM3S9U81, LM3S9U90, LM3S9U92, LM3S9U95, LM3S9U96

Cortex-M4 F100 Series

LM4F110B2QR, LM4F110C4QR, LM4F110E5QR, LM4F110H5QR, LM4F111B2QR, LM4F111C4QR, LM4F111E5QR, LM4F111H5QR, LM4F112C4QC, LM4F112E5QC, LM4F112H5QC, LM4F112H5QD, LM4F120B2QR, LM4F120C4QR, LM4F120E5QR, LM4F120H5QR, LM4F121B2QR, LM4F121C4QR, LM4F121E5QR, LM4F121H5QR, LM4F122C4QC, LM4F122E5QC, LM4F122H5QC, LM4F122H5QD, LM4F130C4QR, LM4F130E5QR, LM4F130H5QR, LM4F131C4QR, LM4F131E5QR, LM4F131H5QR, LM4F132C4QC, LM4F132E5QC, LM4F132H5QD

Cortex-M4 F200 Series

LM4F210E5QR, LM4F210H5QR, LM4F211E5QR, LM4F211H5QR, LM4F212E5QC, LM4F212H5BB, LM4F212H5QC, LM4F212H5QD, LM4F230E5QR, LM4F230H5QR, LM4F231E5QR, LM4F231H5QR, LM4F232E5QC, LM4F232H5BB, LM4F232H5QC, LM4F232H5QD

Cortex-M4 TIVA Series

TM4C1231C3PM, TM4C1231D5PM, TM4C1231E6PM, TM4C1231H6PM, TM4C1230C3PM, TM4C1230D5PM, TM4C1230E6PM, TM4C1230H6PM, TM4C1231D5PZ, TM4C1231E6PZ, TM4C1231H6PZ, TM4C1231H6PGE, TM4C1233C3PM, TM4C1233D5PM, TM4C1233E6PM, TM4C1233H6PM, TM4C1232C3PM, TM4C1232D5PM, TM4C1232E6PM, TM4C1232H6PM, TM4C1233D5PZ, TM4C1233E6PZ, TM4C1233H6PZ, TM4C1233H6PGE, TM4C1237D5PM, TM4C1237E6PM, TM4C1237H6PM, TM4C1236E6PM, TM4C1236H6PM, TM4C1237D5PZ, TM4C1237E6PZ, TM4C1237H6PZ, TM4C1237H6PGE, TM4C123BE6PM, TM4C123BH6PM, TM4C123BH6PM, TM4C123BH6PM, TM4C123BH6PZ, TM4C123BH6PM, TM4C123BH6PZ, TM4C123BH6PGE, TM4C123GE6PM, TM4C123GH6PM, TM4C123FE6PM, TM4C123FH6PM, TM4C123GE6PZ, TM4C123GH6PM, TM4C123FE6PM, TM4C123GH6PM, TM4C123GH6PZ, TM4C123GH6PZ, TM4C123GH6PZ, TM4C123GH6PZ, TM4C123GH6PZ, TM4C123GH6PGE

List of supported devices - Chipcon from Texas Instruments (supported by FlashPro-CC and FlashPro-CM)

Cortex-M3 CC2538

List of supported devices - STM32 from ST Microelectronics (supported by FlashPro-STM and FlashPro-CM)

Cortex-M4 STM32F1xx Series STM32F100C4, STM32F100C6, STM32F100C8, STM32F100CB, STM32F100R4, STM32F100R6, STM32F100R8, STM32F100RB, STM32F100RC, STM32F100RD, STM32F100RE, STM32F100V8, STM32F100VB, STM32F100VC, STM32F100VD, STM32F100VE, STM32F100ZC, STM32F100ZD, STM32F100ZE, STM32F101C4, STM32F101C6, STM32F101C8, STM32F101CB, STM32F101R4, STM32F101R6, STM32F101R8, STM32F101RB, STM32F101RC, STM32F101RD, STM32F101RE, STM32F101RF, STM32F101RG, STM32F101T4, STM32F101T6, STM32F101T8, STM32F101TB, STM32F101V8, STM32F101VB, STM32F101VC, STM32F101VD, STM32F101VE, STM32F101VF, STM32F101VG, STM32F101ZC, STM32F101ZD, STM32F101ZE, STM32F101ZG, STM32F102C4, STM32F102C6, STM32F102C8, STM32F102CB, STM32F102R4, STM32F102R6, STM32F102R8, STM32F102RB, STM32F103C4, STM32F103C6, STM32F103C8, STM32F103CB, STM32F103R4, STM32F103R6, STM32F103R8, STM32F103RB, STM32F103RC, STM32F103RD, STM32F103RE, STM32F103RF, STM32F103RG, STM32F103T4, STM32F103T6, STM32F103T8, STM32F103V8, STM32F103VB, STM32F103VC, STM32F103VD, STM32F103VE, STM32F103VF, STM32F103VG, STM32F103ZC, STM32F103ZD, STM32F103ZE, STM32F103ZF, STM32F103ZG, STM32F105R8, STM32F105RB, STM32F105RC, STM32F105V8, STM32F105VB, STM32F105VC, STM32F107RB, STM32F107RC, STM32F107VB, STM32F107VC,

© Cortex-M4 STM32F2xx Series STM32F205RB, STM32F205RC, STM32F205RE, STM32F205RF, STM32F205RG, STM32F205VB, STM32F205VC, STM32F205VE, STM32F205VF, STM32F205VG, STM32F205ZC, STM32F205ZE, STM32F205ZF, STM32F205ZG, STM32F207IC, STM32F207IE, STM32F207IF, STM32F207IG, STM32F207VC, STM32F207VE, STM32F207VF, STM32F207VG, STM32F207ZC, STM32F207ZE, STM32F207ZF, STM32F207ZG, STM32F215RE, STM32F215RG, STM32F215VE, STM32F215VG, STM32F215ZE, STM32F215ZG, STM32F217IE, STM32F217IG, STM32F217VE

© Cortex-M4 STM32L1xx Series STM32L151C6, STM32L151C8, STM32L151CB, STM32L151QC, STM32L151QD, STM32L151R6, STM32L151R8, STM32L151RB, STM32L151RC, STM32L151RD, STM32L151V8, STM32L151VB, STM32L151VC, STM32L151VD, STM32L151ZC, STM32L151ZD, STM32L152C6, STM32L152C8, STM32L152CB, STM32L152QC, STM32L152QD, STM32L152R6, STM32L152R8, STM32L152RB, STM32L152RC, STM32L152RD, STM32L152V8, STM32L152VB, STM32L152VC, STM32L152VD, STM32L152ZC, STM32L152ZD, STM32L162QD, STM32L162RD, STM32L162VD, STM32L162ZD Programmer is offered in following software version - (with the same hardware).

PN: FLASHPRO-CM-STD: Standard software with serialization and Multi-FPA API-DLL - Supports Stellaris, TIVA and Chipcon MCUs from TI and STM32 MCUs from STM Microelectronics.

PN: FLASHPRO-LM-STD: Standard software with serialization and Multi-FPA API-DLL - Supports Stellaris and TIVA MCUs from TI.

PN: FLASHPRO-STM-STD: Standard software with serialization and Multi-FPA API-DLL - Supports STM32 MCUs from STM Microelectronics.

Package contains:

- FlashPro-CM USB-FPA 6.1 programming adapter
- USB and ribbon cables
- FlashPro-CM 14-pins to 20-pins adapter
- CD with software and documentation
- FlashPro-CM software (GUI)
- Serialization (serial number assignment)
- Multi-FPA API-DLL for remote control
- Script file options.

Specification:

PC Communication Interface:	Full Speed USB-1.1 (12 Mbits/s)
USB connectors	Adpater site: USB-type B, Computer site: USB-type A
Target connector	14 pins header connector.
DC Power	+5V +/- 20%, 100 mA +�target's current (0-100mA)
Target Device DC supply - external - from programming adapter	+1.8 V to 3.6 V +1.8 V to 3.6 in step 0.1V / 200 mA max
Communication speed	selectable Fast and Slow
Flash Programming speed	
Size	76 x 43 x 20 mm (3.0 x 1.68 x 0.8 inch)
Verification Compliance	CE (European CISPR 22 and EN 55022). FCC Part 15, Subpart B- Class B Unintentional Radiators for Uses in Home, Commercial ar

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Elprotronic Inc.:

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