




Software Selector Guide

MCU Vendor	MCU Family	FlashPro-ARM GangPro-ARM	FlashPro430 GangPro430	FlashPro-CC GangPro-CC	FlashPro-2000	FlashPro-M	GangPro-M
Texas Instruments	MSP430, CC430		+				
Texas Instruments	ARM MSP432	+					
Texas Instruments	TMS320F28xx				+		
Texas Instruments	Cxx Wireless Solution 8051 Core			+			
Texas Instruments	Cxx Wireless Solution ARM Core	+					
ST Microelectronics	ARM STM32	+					
Active Semi	ARM PAC5xx	+					
Analog Devices	ARM ADuCM	+					
Infineon / Cypress	ARM PSoC, FMxx	+					
Microchip (Atmel)	ARM AT-SAMxx	+					
Marvel	ARM 88MC2xx / 88MW3xx	+					
Maxim	ARM MAX 326xx	+					
Nordic Semiconductors	ARM nRF5xx	+					
NXP / Freescale	ARM iMX, Kinetis, LPCxx	+					
Renesas	ARM Synergy	+					
Silergy	ARM MAXxx	+					
Silicon Labs	ARM EFM32, EFR32, Sim3, EM3	+					
ST Microelectronics	STM-8					+	+
Microchip (Atmel)	AVR					+	
Microchip	PIC					+	
Serial Flash via SPI	Adesto, Cypress, ISSI, Macronix, Microchip, Micron, Winbond					+	+

Programmer Selector Guide





Package Name	Price [USD]	Target MCUs	Software	USB-FPA 	XStream- 	XStreamPro- 
FlashPro430 – Lite BSL (*)	189/--/--	MSP430	FlashPro430	PN: USB-MSP430-FPA-LB	-	-
FlashPro430 – Lite JTAG (*)	189/--/--	MSP430	FlashPro430	PN: USB-MSP430-FPA-LJ	-	-
FlashPro430 – Lite JTAG/BSL (*)	219/--/--	MSP430	FlashPro430	PN: USB-MSP430-FPA-LJB	-	-
FlashPro430 – Standard [XS, X2S]	299/419/619	MSP430	FlashPro430	PN: USB-MSP430-FPA-STD	PN: XS-FP-430	PN: X2S-FP-430
FlashPro-MSP [XS, X2S]	359/479/679	MSP430 / MSP432	FlashPro430 / FlashPro-ARM	PN: FP-MSP	PN: XS-FP-MSP	PN: X2S-FP-MSP
FlashPro-MSP430 and CCxx MCU	429/--/--	MSP430 / CCxx	FlashPro430 / FlashPro-CC	PN: USB-FPA-MSP430-CC	-	-
GangPro430 – JTAG	319/--/--	MSP430	GangPro430 / FlashPro430	PN: USB-MSP430-FPA-GANG-J	-	-
GangPro430 – JTAG / BSL [XS, X2S]	339/659/859	MSP430	GangPro430 / FlashPro430	PN: USB-MSP430-FPA-GANG-JB	PN: XS-GP-430	PN: X2S-GP-430
FlashPro-CC – Lite (*)	219/--/--	CCxx	FlashPro-CC / FlashPro-ARM	PN: FLASHPRO-CC-LITE	-	-
FlashPro-CC – Standard [XS, X2S]	299/419/619	CCxx	FlashPro-CC / FlashPro-ARM	PN: FLASHPRO-CC-STD	PN: XS-FP-CC	PN: X2S-FP-CC
GangPro-CC [XS, X2S]	539/659/859	CCxx	GangPro-CC / GangPro-ARM	PN: GANGPRO-CC-STD	PN: XS-GP-CC	PN: X2S-GP-CC
FlashPro-2000 – Lite (*)	219/--/--	TMS320C28xx	FlashPro-2000	PN: FP2000-LITE	-	-
FlashPro-2000 – Standard [XS, X2S]	299/419/619	TMS320C28xx	FlashPro-2000	PN: FP2000-STD	PN: XS-FP-2000	PN: X2S-FP-2000
FlashPro-ARM – One Vendor [XS, X2S]	339/459/659	ARM Limited to One Vendor(***)	FlashPro-ARM	PN: FP-ARM-1V	PN: XS-FP-ARM-1V	PN: X2S-FP-ARM-1V (**)
FlashPro-ARM [XS, X2S]	449/569/769	See ARM list in the website	FlashPro-ARM	PN: FP-ARM	PN: XS-FP-ARM	PN: X2S-FP-ARM (**)
GangPro-ARM – One Vendor [XS, X2S]	589/909/1109	ARM Limited to One Vendor(***)	GangPro-ARM / FlashPro-ARM	PN: GP-ARM-1V	PN: XS-GP-ARM-1V	PN: X2S-GP-ARM-1V (**)
GangPro-ARM [XS, X2S]	699/1019/1319	See ARM list in the website	GangPro-ARM / FlashPro-ARM	PN: GP-ARM	PN: XS-GP-ARM	PN: X2S-GP-ARM (**)
FlashPro-M – One Vendor [XS, X2S]	--/419/619	Limited to One Vendor (***)	FlashPro-M	-	PN: XS-FP-M-1V	PN: X2S-FP-M-1V
FlashPro-M [XS, X2S]	--/529/729	Serial Flash, STM-8, PIC, AT	FlashPro-M	-	PN: XS-FP-M	PN: X2S-FP-M
GangPro-M – One Vendor [XS, X2S]	--/759/969	Limited to One Vendor (***)	GangPro-M / FlashPro-M	-	PN: XS-GP-M-1V	PN: X2S-GP-M-1V
GangPro-M [XS, X2S]	--/869/1069	Serial Flash, STM-8	GangPro-M / FlashPro-M	-	PN: XS-GP-M	PN: X2S-GP-M
Universal FlashPro-X Programmer [XS,X2S]	599/719/919	Any above	Any Flash-.. Above	PN: FLASHPRO-X	PN: XS-FP-X	PN: X2S-FP-X
Universal GangPro-X Programmer [XS,X2S]	799/1119/1319	Any above	Any Flash-.. and Gang-.. Above	PN: GANGPRO-X	PN: XS-GP-X	PN: X2S-GP-X

Note: (*) Lite version – software without access to DLLs, serialization and script files.

(**) Supports Serial Flash programming via JTAG/SWD and MCU using FlashPro-ARM/GangPro-ARM software or via SPI using FlashPro-M/GangPro-M software

(***) Limited to one Vendor e.g. TI only, NXP only etc.

Programming Adapters

Features	USB-FPA 	XStream-Iso 	XStreamPro-Iso  
Suffix in the Product Part Number	none e.g. FP-ARM	XS- e.g. XS-FP-ARM	X2S- e.g. X2S-FP-ARM
Data transfer speed to / from Target Device	Up to 100 kbytes/s	Up to 1 Mbytes/s	Up to 1 Mbytes/s
JTAG / SWD Hi Speed	Fixed ~ 1.5MHz	Prog. 1-20MHz	Prog. 1-20MHz
JTAG / SWD Med / Low Speed	800kHz / 400kHz	800kHz / 400kHz	800kHz / 400kHz
Supported Comm. Interfaces (vary by software)	JTAG, cJTAG, SWD, SBW, BSL, DD, UART ..	JTAG, cJTAG, SWD, SBW, BSL, DD, SPI, UART ..	JTAG, cJTAG, SWD, SBW, BSL, DD, SPI, UART ..
DLL for debugging	MSP430	MSP430, ARM (IAR EW-ARM)	MSP430, ARM (IAR EW-ARM)
Image Memory (for Standalone, Security)	-	-	24 MB Flash
RAM Buffer for real time monitoring (current, voltage)	-	32 kB RAM	32 kB RAM
Galvanic Isolation between PC and Target Device	-	YES	YES
Vcc and I/O range	1.65 - 4.0 V	1.65 - 4.0 V	1.2 - 4.0 V
Vcc supplied from Adapter to Target Device	1.65-4.0 V /up to 200mA	1.65-4.0 V /up to 200mA	1.2-4.0 V /up to 200mA
Icc Current measurements	-	20 uA – 200 mA	50 nA – 200 mA
Communication via USB 2.0 Full Speed	YES	YES	YES
Communication via LAN (Ethernet)	-	-	YES
Adapter powered from	USB +5V	USB +5V	USB +5V or PoE +48V
I/O lines in 3-state	YES. Pullup 1M to Vcc	YES. Pullup 1M to Vcc	YES
Power line in 3-state	-	-	YES
Up to 64 adapters can be connected to one PC	YES	YES	YES
FCC / CE test certification	YES	YES	YES
OS	Windows™ 32-b applications	Windows™ 32,64-b applications, Linux	Windows™ 32,64-b applications, Linux
Size	79 * 42 * 21 mm	79 * 42 * 21 mm	79 * 42 * 21 mm