8-, 16- and 32-bit microcontrollers

Product and tool selection guide

February 2010

MCU - Typical designations and part number suffixes

STM32	F	101	R	4	T	6	A*	/CCC
Family	Version code	Subfamily (Depends on the product range)	User pin count	ROM size code	Packaging	Application range	STM8x pitch size	Option

Family

ST6	62
ST7	7x
ST10	10
STM32	M32
STM8	M8
STR7	R7
STR9	R9

Version code

*	ROM (no character)
E	EPROM
T	OTP
P	FastROM
F,C	Flash

Subfamily

(Depends on the product range)

User pin count

Y	16 pins
F	20 pins
E	24 pins
G	28 pins
K	32 pins
L	34 pins
D	38 pins
H	40 pins
J	42 pins
S	44 pins
C	48 pins
N	56 pins
AR	64 pins (10x10)
R	64 pins (14x14)
M	80 pins
V	100 pins
W	128 pins
Z	144 pins

ROM size code

Kbytes	ST7	STR7/9	STMx
1	0		0
2	0		1
4	1		2
8	2		3
16	4		4
32	6		6
48	7		7
54	8		
60/64	9	0	8
72			9
96			A
128		1	B
148			
256			C
384		2	D
512		4	E
1024		6	
2048		7	

Packaging

B	Plastic DIP (dual in-line package)
D	Ceramic DIP (dual in-line package)
H	BGA (ball grid array package)
M	Plastic SO (small outline package)
P	TSSOP (thin shrink small outline package)
T	Low profile/thin QFP (quad flat package)
U	QFN (dual quad flat no-lead)
X	LQFP (STR9 only) (low profile quad flat package)

Application range

+25 °C	0
0 to 70 °C	1
-10 to 85 °C	5
-40 to 85 °C	6
-40 to 105 °C	7
-40 to 125 °C	3

STM8x pitch size

A*	0.40 mm
no character	0.50 mm
B	0.65 mm
C	0.80 mm
D	1.00 mm

*STM3x internal code

Option

For more information on ST products and solutions,
visit www.st.com

Order code: SGMICRO0210

STM32 - 32-bit microcontroller families

STM32F - 32-bit ARM Cortex MCUs

Part number		Program memory: Type: Flash	Program memory: Type: ROM	Program memory: Size: (Kbytes)	RAM (bytes)	Data E²PROM (bytes)	A/D inputs	Timer functions: 12 or 16-bit (IC/OC/PWM)	Timer functions: 8-bit (IC/OC/PWM)	Timer functions: Others	Serial interface	LVD levels	I/Os (high current²)	Packages	Supply voltage (V)	Special features
STM32F100 Value line - 24 MHz CPU																
48 pins	STM32F100C4	●		16	4 K	-	10x12-bit	6x16-bit (16/16/21)	-	2xWDG, RTC, 24-bit down counter, 2x16-bit basic timers	1xSPI, 1xI²C, CEC, 2xUSART (IrDA, ISO 7816)	-	37(37)	LQFP48	2.0 to 3.6	24 MHz CPU speed, 2-channel DAC, Vbat pin, low-power features, embedded POR, PDR and PVD, 8 MHz and 40 kHz internal RC oscillator, 4-24 MHz main oscillator, dedicated 32 kHz oscillator, -40 to 85 °C or -40 to 105 °C
	STM32F100C6	●		32	4 K	-	10x12-bit	6x16-bit (16/16/21)	-			-	37(37)	LQFP48	2.0 to 3.6	
	STM32F100C8	●		64	8 K	-	10x12-bit	7x16-bit (18/18/21)	-		2xSPI, 2xI²C, CEC, 3xUSART (IrDA, ISO 7816)	-	37(37)	LQFP48	2.0 to 3.6	
	STM32F100CB	●		128	8 K	-	10x12-bit	7x16-bit (18/18/21)	-			-	37(37)	LQFP48	2.0 to 3.6	
64 pins	STM32F100R4	●		16	4 K	-	16x12-bit	6x16-bit (16/16/21)	-		1xSPI, 1xI²C, CEC, 2xUSART (IrDA, ISO 7816)	-	51(51)	LQFP64, TFBGA64	2.0 to 3.6	
	STM32F100R6	●		32	4 K	-	16x12-bit	6x16-bit (16/16/21)	-			-	51(51)	LQFP64, TFBGA64	2.0 to 3.6	
	STM32F100R8	●		64	8 K	-	16x12-bit	7x16-bit (20/20/23)	-		2xSPI, 2xI²C, CEC, 3xUSART (IrDA, ISO 7816)	-	51(51)	LQFP64, TFBGA64	2.0 to 3.6	
	STM32F100RB	●		128	8 K	-	16x12-bit	7x16-bit (20/20/23)	-			-	51(51)	LQFP64, TFBGA64	2.0 to 3.6	
100 pins	STM32F100V8	●		64	8 K	-	16x12-bit	7x16-bit (20/20/26)	-		2xSPI, 2xI²C, CEC, 3xUSART (IrDA, ISO 7816)	-	80(80)	LQFP100	2.0 to 3.6	
	STM32F100VB	●		128	8 K	-	16x12-bit	7x16-bit (20/20/26)	-			-	80(80)	LQFP100	2.0 to 3.6	
STM32F101 Access line - 36 MHz CPU																
36 pins	STM32F101T4	●		16	4 K	-	10x12-bit	2x16-bit (8/8/8)	-	2xWDG, 24-bit down counter	1xSPI, 1xI²C, 2xUSART (IrDA, ISO 7816)	-	26(26)	QFN36	2.0 to 3.6	36 MHz CPU speed, Vbat pin, low-power features, embedded POR, PDR and PVD, 8 MHz and 40 kHz internal RC oscillator, 4-16 MHz main oscillator, dedicated 32 kHz oscillator, -40 to 85 °C Additional features on 256-Kbyte to 1-Mbyte variants: EMI (100 and 144 pins), 2-channel DAC Additional features on 768-Kbyte to 1-Mbyte variants: MPU, dual bank Flash with RWW
	STM32F101T6	●		32	6 K	-	10x12-bit	2x16-bit (8/8/8)	-			-	26(26)	QFN36	2.0 to 3.6	
	STM32F101T8	●		64	10 K	-	10x12-bit	3x16-bit (12/12/12)	-			-	26(26)	QFN36	2.0 to 3.6	
48 pins	STM32F101C4	●		16	4 K	-	10x12-bit	2x16-bit (8/8/8)	-	2xWDG, RTC, 24-bit down counter	1xSPI, 1xI²C, 2xUSART (IrDA, ISO 7816)	-	36(36)	LQFP48, LQFP48	2.0 to 3.6	
	STM32F101C6	●		32	6 K	-	10x12-bit	2x16-bit (8/8/8)	-			-	36(36)	LQFP48, LQFP48	2.0 to 3.6	
	STM32F101C8	●		64	10 K	-	10x12-bit	3x16-bit (12/12/12)	-	2xWDG, RTC, 24-bit down counter	2xSPI, 2xI²C, 3xUSART (IrDA, ISO 7816)	-	36(36)	LQFP48, LQFP48	2.0 to 3.6	
	STM32F101CB	●		128	16 K	-	10x12-bit	3x16-bit (12/12/12)	-	2xWDG, RTC, 24-bit down counter	1xSPI, 1xI²C, 2xUSART (IrDA, ISO 7816)	-	36(36)	LQFP48, LQFP48	2.0 to 3.6	
64 pins	STM32F101R4	●		16	4 K	-	16x12-bit	2x16-bit (8/8/8)	-	2xWDG, RTC, 24-bit down counter	1xSPI, 1xI²C, 2xUSART (IrDA, ISO 7816)	-	51(51)	LQFP64	2.0 to 3.6	
	STM32F101R6	●		32	6 K	-	16x12-bit	2x16-bit (8/8/8)	-			-	51(51)	LQFP64	2.0 to 3.6	
	STM32F101R8	●		64	10 K	-	16x12-bit	3x16-bit (12/12/12)	-	2xWDG, RTC, 24-bit down counter	2xSPI, 2xI²C, 3xUSART (IrDA, ISO 7816)	-	51(51)	LQFP64	2.0 to 3.6	
	STM32F101RB	●		128	16 K	-	16x12-bit	3x16-bit (12/12/12)	-			-	51(51)	LQFP64	2.0 to 3.6	
	STM32F101RC	●		256	32 K	-	16x12-bit	6x16-bit (16/16/16)	-	2xWDG, RTC, 24-bit down counter, 2x16-bit basic timers	3xSPI, 2xI²C, 5xUSART/UART (IrDA, ISO 7816)	-	51(51)	LQFP64	2.0 to 3.6	
	STM32F101RD	●		384	48 K	-	16x12-bit	6x16-bit (16/16/16)	-			-	51(51)	LQFP64	2.0 to 3.6	
	STM32F101RE	●		512	48 K	-	16x12-bit	6x16-bit (16/16/16)	-			-	51(51)	LQFP64	2.0 to 3.6	
	STM32F101RF	●		768	80K	-	16x12-bit	12x16-bit (19/19/19)	-			-	51(51)	LQFP64	2.0 to 3.6	
	STM32F101RG	●		1024	80K	-	16x12-bit	12x16-bit (19/19/19)	-			-	51(51)	LQFP64	2.0 to 3.6	
100 pins	STM32F101V8	●		64	10 K	-	16x12-bit	3x16-bit (12/12/12)	-	2xWDG, RTC, 24-bit down counter	2xSPI, 2xI²C, 3xUSART (IrDA, ISO 7816)	-	80(80)	LQFP100	2.0 to 3.6	
	STM32F101VB	●		128	16 K	-	16x12-bit	3x16-bit (12/12/12)	-			-	80(80)	LQFP100	2.0 to 3.6	
	STM32F101VC	●		256	32 K	-	16x12-bit	6x16-bit (16/16/16)	-	2xWDG, RTC, 24-bit down counter, 2x16-bit basic timers	3xSPI, 2xI²C, 5xUSART/UART (IrDA, ISO 7816)	-	80(80)	LQFP100	2.0 to 3.6	
	STM32F101VD	●		384	48 K	-	16x12-bit	6x16-bit (16/16/16)	-			-	80(80)	LQFP100	2.0 to 3.6	
	STM32F101VE	●		512	48 K	-	16x12-bit	6x16-bit (16/16/16)	-			-	80(80)	LQFP100	2.0 to 3.6	
	STM32F101VF	●		768	80K	-	16x12-bit	12x16-bit (23/23/23)	-			-	80(80)	LQFP100	2.0 to 3.6	
	STM32F101VG	●		1024	80K	-	16x12-bit	12x16-bit (23/23/23)	-			-	80(80)	LQFP100	2.0 to 3.6	
144 pins	STM32F101ZC	●		256	32 K	-	16x12-bit	6x16-bit (16/16/16)	-	2xWDG, RTC, 24-bit down counter, 2x16-bit basic timers	3xSPI, 2xI²C, 5xUSART/UART (IrDA, ISO 7816)	-	112(112)	LQFP144	2.0 to 3.6	
	STM32F101ZD	●		384	48 K	-	16x12-bit	6x16-bit (16/16/16)	-			-	112(112)	LQFP144	2.0 to 3.6	
	STM32F101ZE	●		512	48 K	-	16x12-bit	6x16-bit (16/16/16)	-			-	112(112)	LQFP144	2.0 to 3.6	
	STM32F101ZF	●		768	80K	-	16x12-bit	12x16-bit (23/23/23)	-			-	112(112)	LQFP144	2.0 to 3.6	
	STM32F101ZG	●		1024	80K	-	16x12-bit	12x16-bit (23/23/23)	-			-	112(112)	LQFP144	2.0 to 3.6	
STM32F102 USB Access line - 48 MHz CPU																
48 pins	STM32F102C4	●		16	4 K	-	10x12-bit	2x16-bit (8/8/8)	-	2xWDG, RTC, 24-bit down counter	1xSPI, 1xI²C, 2xUSART (IrDA, ISO 7816)	-	36(36)	LQFP48	2.0 to 3.6	48 MHz CPU speed, Vbat pin, low-power features, embedded POR, PDR and PVD, 8 MHz and 40 kHz internal RC oscillator, 4-16 MHz main oscillator, dedicated 32 kHz oscillator, -40 to 85 °C
	STM32F102C6	●		32	6 K	-	10x12-bit	2x16-bit (8/8/8)	-			-	36(36)	LQFP48	2.0 to 3.6	
	STM32F102C8	●		64	10 K	-	10x12-bit	3x16-bit (12/12/12)	-		2xSPI, 2xI²C, 3xUSART (IrDA, ISO 7816)	-	36(36)	LQFP48	2.0 to 3.6	
	STM32F102CB	●		128	16 K	-	10x12-bit	3x16-bit (12/12/12)	-			-	36(36)	LQFP48	2.0 to 3.6	
64 pins	STM32F102R4	●		16	4 K	-	16x12-bit	2x16-bit (8/8/8)	-		1xSPI, 1xI²C, 2xUSART (IrDA, ISO 7816)	-	51(51)	LQFP64	2.0 to 3.6	
	STM32F102R6	●		32	6 K	-	16x12-bit	2x16-bit (8/8/8)	-			-	51(51)	LQFP64	2.0 to 3.6	
	STM32F102R8	●		64	10 K	-	16x12-bit	3x16-bit (12/12/12)	-		2xSPI, 2xI²C, 3xUSART (IrDA, ISO 7816)	-	51(51)	LQFP64	2.0 to 3.6	
	STM32F102RB	●		128	16 K	-	16x12-bit	3x16-bit (12/12/12)	-			-	51(51)	LQFP64	2.0 to 3.6	

STM32F103 Performance line - 72 MHz CPU																
36 pins	**STM32F103T4**	●		16	6 K	-	10x12-bit	3x16-bit (12/12/14)	-	2xWDG, 24-bit down counter	1xSPI, 1xI²C, 2xUSART (IrDA, ISO 7816), USB, CAN	-	26(26)	QFN36	2.0 to 3.6	72 MHz CPU speed, Vbat pin, low-power features, embedded POR, PDR and PVD, 8 MHz and 40 kHz internal RC oscillator, 4-16 MHz main oscillator, dedicated 32 kHz oscillator, 1x high-speed USART 4.5 Mbit/s, motor control oriented PWM, 2x ADC sample and hold capability, -40 to 85 °C or -40 to 105 °C Additional features on 256-Kbyte to 1-Mbyte variants: EMI (100 and 144 pins), 2-channel DAC, , 3x ADC sample and hold capability, 2 motor control PWM Additional features on 768-Kbyte to 1-Mbyte variants: MPU, dual bank Flash with RWW
	STM32F103T6	●		32	10 K	-	10x12-bit	3x16-bit (12/12/14)	-			-	26(26)	QFN36	2.0 to 3.6	
	STM32F103T8	●		64	20 K	-	10x12-bit	4x16-bit (16/16/18)	-			-	26(26)	QFN36	2.0 to 3.6	
48 pins	**STM32F103C4**	●		16	6 K	-	10x12-bit	3x16-bit (12/12/14)	-	2xWDG, RTC, 24-bit down counter	1xSPI, 1xI²C, 2xUSART (IrDA, ISO 7816), USB, CAN	-	36(36)	LQFP48, QFN48	2.0 to 3.6	
	STM32F103C6	●		32	10 K	-	10x12-bit	3x16-bit (12/12/14)	-		1xSPI, 1xI²C, 2xUSART (IrDA, ISO 7816), USB, CAN	-	36(36)	LQFP48, QFN48	2.0 to 3.6	
	STM32F103C8	●		64	20 K	-	10x12-bit	4x16-bit (16/16/18)	-		2xSPI, 2xI²C, 3xUSART (IrDA, ISO 7816)	-	36(36)	LQFP48, QFN48	2.0 to 3.6	
	STM32F103CB	●		128	20 K	-	10x12-bit	4x16-bit (16/16/18)	-		2xSPI, 2xI²C, 3xUSART (IrDA, ISO 7816)	-	36(36)	LQFP48, QFN48	2.0 to 3.6	
64 pins	**STM32F103R4**	●		16	6 K	-	16x12-bit	3x16-bit (12/12/14)	-	2xWDG, RTC, 24-bit down counter	1xSPI, 1xI²C, 2xUSART (IrDA, ISO 7816)	-	51(51)	LQFP64, TFBGA64	2.0 to 3.6	
	STM32F103R6	●		32	10 K	-	16x12-bit	3x16-bit (12/12/14)	-			-	51(51)	LQFP64, TFBGA64	2.0 to 3.6	
	STM32F103R8	●		64	20 K	-	16x12-bit	4x16-bit (16/16/18)	-	2xWDG, RTC, 24-bit down counter	2xSPI, 2xI²C, 3xUSART (IrDA, ISO 7816)	-	51(51)	LQFP64, TFBGA64	2.0 to 3.6	
	STM32F103RB	●		128	20 K	-	16x12-bit	4x16-bit (16/16/18)	-			-	51(51)	LQFP64, TFBGA64	2.0 to 3.6	
	STM32F103RC	●		256	48 K	-	16x12-bit	8x16-bit (24/24/28)	-	2xWDG, RTC, 24-bit down counter, 2x16-bit basic timers	3xSPI, 2xI²S, 2xI²C, 5xUSART/UART (IrDA, ISO 7816), SDIO, USB, CAN	-	51(51)	LQFP64, WLCSP64	2.0 to 3.6	
	STM32F103RD	●		384	64 K	-	16x12-bit	8x16-bit (24/24/28)	-			-	51(51)	LQFP64, WLCSP64	2.0 to 3.6	
	STM32F103RE	●		512	64 K	-	16x12-bit	8x16-bit (24/24/28)	-			-	51(51)	LQFP64, WLCSP64	2.0 to 3.6	
	STM32F103RF	●		768	96K	-	16x12-bit	14x16-bit (27/27/29)	-			-	51(51)	LQFP64	2.0 to 3.6	
	STM32F103RG	●		1024	96K	-	16x12-bit	14x16-bit (27/27/29)	-			-	51(51)	LQFP64	2.0 to 3.6	
100 pins	**STM32F103V8**	●		64	20 K	-	16x12-bit	4x16-bit (16/16/18)	-	2xWDG, RTC, 24-bit down counter	2xSPI, 2xI²C, 3xUSART (IrDA, ISO 7816)	-	80(80)	LQFP100, LFBGA100	2.0 to 3.6	
	STM32F103VB	●		128	20 K	-	16x12-bit	4x16-bit (16/16/18)	-			-	80(80)	LQFP100, LFBGA100	2.0 to 3.6	
	STM32F103VC	●		256	48 K	-	16x12-bit	8x16-bit (24/24/28)	-	2xWDG, RTC, 24-bit down counter, 2x16-bit basic timers	3xSPI, 2xI²C, 5xUSART/UART (IrDA, ISO 7816), SDIO, USB, CAN	-	80(80)	LQFP100, LFBGA100	2.0 to 3.6	
	STM32F103VD	●		384	64 K	-	16x12-bit	8x16-bit (24/24/28)	-			-	80(80)	LQFP100, LFBGA100	2.0 to 3.6	
	STM32F103VE	●		512	64 K	-	16x12-bit	8x16-bit (24/24/28)	-			-	80(80)	LQFP100, LFBGA100	2.0 to 3.6	
	STM32F103VF	●		768	96K	-	16x12-bit	14x16-bit (29/29/33)	-			-	80(80)	LQFP100	2.0 to 3.6	
	STM32F103VG	●		1024	96K	-	16x12-bit	14x16-bit (29/29/33)	-			-	80(80)	LQFP100	2.0 to 3.6	

STM32 - 32-bit microcontroller families

	Part number	Program memory			RAM (bytes)	Data E²PROM (bytes)	A/D inputs	Timer functions			Serial interface	LVD levels	I/Os (high current²)	Packages	Supply voltage (V)	Special features
		Type		Size				12 or 16-bit (IC/OC/PWM)	8-bit (IC/OC/PWM)	Others						
		Flash	ROM	(Kbytes)												
144 pins	**STM32F103ZC**	●		256	48 K	-	21x12-bit	8x16-bit (24/24/28)	-	2xWDG, RTC, 24-bit down counter, 2x16-bit basic timers	3xSPI, 2xI²C, 5xUSART/UART (IrDA, ISO 7816), SDIO, USB, CAN	-	112(112)	LQFP144, LFBGA144	2.0 to 3.6	
	STM32F103ZD	●		384	64 K	-	21x12-bit	8x16-bit (24/24/28)	-			-	112(112)	LQFP144, LFBGA144	2.0 to 3.6	
	STM32F103ZE	●		512	64 K	-	21x12-bit	8x16-bit (24/24/28)	-			-	112(112)	LQFP144, LFBGA144	2.0 to 3.6	
	STM32F103ZF	●		768	96K	-	21x12-bit	14x16-bit (33/33/35)	-			-	112(112)	LQFP144, LFBGA144	2.0 to 3.6	
	STM32F103ZG	●		1024	96K	-	21x12-bit	14x16-bit (33/33/35)	-			-	112(112)	LQFP144, LFBGA144	2.0 to 3.6	
STM32F105/107 Connectivity line - 72 MHz CPU																
64 pins	**STM32F105R8**	●		64	20 K	-	16x12-bit	7x16-bit (20/20/22)	-	2xWDG, RTC, 24-bit down counter, 2x16-bit basic timers	3xSPI, 2xI²S, 2xI²C, 3xUSART (IrDA, ISO 7816), 2xUART, USB OTG FS, 2xCAN	-	51(51)	LQFP64	2.0 to 3.6	72 MHz CPU speed, 2-channel DAC, Vbat pin, low power features, embedded POR, PDR and PVD, 8 MHz and 40 kHz internal RC oscillator, 3-25 MHz main oscillator, dedicated 32 kHz oscillator, 1x high-speed USART 4.5 Mbit/s, motor control oriented PWM, 2x ADC (double sample and hold capability), advanced PLL schemes for audio class I²S communication, -40 to 85 °C or -40 to 105 °C
	STM32F105RB	●		128	32 K	-	16x12-bit	7x16-bit (20/20/22)	-			-	51(51)	LQFP64	2.0 to 3.6	
	STM32F105RC	●		256	64 K	-	16x12-bit	7x16-bit (20/20/22)	-			-	51(51)	LQFP64	2.0 to 3.6	
	STM32F107RB	●		128	48 K	-	16x12-bit	7x16-bit (20/20/22)	-	2xWDG, RTC, 24-bit down counter, 2x16-bit basic timers	3xSPI, 2xI²S, 2xI²C, 3xUSART (IrDA, ISO 7816), 2xUART, USB OTG FS, 2xCAN, Ethernet MAC10/100	-	51(51)	LQFP64	2.0 to 3.6	
	STM32F107RC	●		256	64 K	-	16x12-bit	7x16-bit (20/20/22)	-			-	51(51)	LQFP64	2.0 to 3.6	
100 pins	**STM32F105V8**	●		64	20 K	-	16x12-bit	7x16-bit (20/20/22)	-	2xWDG, RTC, 24-bit down counter, 2x16-bit basic timers	3xSPI, 2xI²S, 2xI²C, 3xUSART (IrDA, ISO 7816), 2xUART, USB OTG FS, 2xCAN	-	80(80)	LQFP100	2.0 to 3.6	
	STM32F105VB	●		128	32 K	-	16x12-bit	7x16-bit (20/20/22)	-			-	80(80)	LQFP100	2.0 to 3.6	
	STM32F105VC	●		256	64 K	-	16x12-bit	7x16-bit (20/20/22)	-			-	80(80)	LQFP100	2.0 to 3.6	
	STM32F107VB	●		128	48 K	-	16x12-bit	7x16-bit (20/20/22)	-	2xWDG, RTC, 24-bit down counter, 2x16-bit basic timers	3xSPI, 2xI²S, 2xI²C, 3xUSART (IrDA, ISO 7816), 2xUART, USB OTG FS, 2xCAN, Ethernet MAC10/100	-	80(80)	LQFP100	2.0 to 3.6	
	STM32F107VC	●		256	64 K	-	16x12-bit	7x16-bit (20/20/22)	-			-	80(80)	LQFP100	2.0 to 3.6	

STM32W - 32-bit ARM Cortex RF MCUs

STM32W108 Wireless line - IEEE 802.15.4																
40 pins	**STM32W108HB**	●		128	8 K	-	6x12-bit	2x16-bit	-	-	1xUART, 1xSPI, 1xI²C	-	18	VQFN40	2.1 to 3.6	IEEE 802.15.4, radio 2.45 GHz, 109 dBm Link budget. "x" define F/W Library: Blank=none, 1=ZigBee PRO, 2= RFU, 3=RF4CE, 4=MAC
48 pins	**STM32W108CB**	●		128	8 K	-	6x12-bit	2x16-bit	-	-		-	24	VQFN48	2.1 to 3.6	

Abbreviations and notes

Abbreviations

ADC : Analog-to-digital converter
ART : Auto-reload timer
ATAPI : AT attachment packet interface
AWU : Auto wake-up from halt
BLPD : Byte level protocol decoder
BOD : Brown-out detector
CAN : Controller area network
CAPCOM : Capture compare
CSS : Clock security system
DALI : Digital addressable lighting interface
DDC : Data display channel
DiSEqC : Digital satellite equipment control
DMA : Direct memory access
DSC : Dual supply control
DTC : Data transfer coprocessor
ETM : Embedded trace macrocell
EMI : External memory interface
HDLC : High-level data link control
IAP : In-application programming
IC/OC : Input capture/output compare ICP programming
IR : Infrared
IrDA : Infrared data association
ISP : In-situ programming
I²C : Inter-integrated circuit
I²S : Inter-IC sound
LCD : Liquid crystal display
LIN : Local interconnect network
LVD : Low voltage detection
MAC : Multiply accumulator
MC : Motor control
MFT : Multifunction timer
MMC : MultiMediaCard
NMI : Non-maskable interrupt
OSG : Oscillator safeguard
PCA : Programmable counter array
PDR : Power-down reset
PHW : Programmable halt wake-up
PEC : Peripheral event controller
PLD : Programmable logic device
PLL : Phase locked loop
POR : Power-on reset
PVD : Programmable voltage detector
PVR : Programmable voltage regulator
PWM : Pulse width modulation
ROP : Readout protection
RTC : Real-time clock timer
SC : Smartcard
SCI : Serial communication interface
SCR : Smartcard reader
SDIO : Secure digital input output
SMI : Serial memory interface
SPI : Serial peripheral interface
SSC : Single-cycle switching support
SSP : Synchronous serial port
TBU : Time base unit
TLI : Top level interrupt
UART : Universal asynchronous receiver transmitter
USART : Universal sync/async receiver transmitter
USB : Universal Serial Bus
WDG : Watchdog timer
WWDG : Window watchdog timer

Packages

DIP : Dual in-line package
LCC : Leaded chip carrier
SDIP : Shrink dual in-line package
PQFP : Plastic quad flat package
SO : Small outline
LQFP : Low-profile quad flat package
PBGA : Plastic ball grid array
DFN : Dual flat no-lead
QFN : Quad flat no-lead

Notes

○ : Under development
1 : Exists also in OTP and EPROM version
2 : Number of high current pins included in the number of I/O pins
3 : Audio square wave generator
4 : HDFlash (high-density Flash)
5 : XFlash (extended Flash for 10 kcycle min)
6 : FASTROM service available for pre-programmed devices in production quantities

STM8 - 8-bit microcontroller families

STM8S multi-purpose 8-bit microcontroller families

Part number		Program memory Type Flash	Program memory Type ROM	Program memory Size (Kbytes)	RAM (bytes)	Data E²PROM (bytes)	A/D inputs	Timer functions 12 or 16-bit (IC/OC/ PWM)	Timer functions 8-bit (IC/OC/ PWM)	Timer functions Others	Serial interface	LVD levels	I/Os (high current²)	Pac Kages	Supply voltage (V)	Special features
STM8S20x Performance line																
32 pins	**STM8S207K6**	●		32	2 K	1 K	7x10-bit	3x16-bit (8/8/11)	1x8-bit		1xSPI, 1xI²C, 1xUART (IrDA, ISO 7816)	1	25(12)	LQFP32 (7x7), QFN32 (5x5)	2.95 to 5.5	
44 pins	**STM8S207S6**	●		32	2 K	1 K	9x10-bit	3x16-bit (8/8/11)	1x8-bit		1xSPI, 1xI²C, 2xUART (IrDA, ISO 7816)	1	34(15)	LQFP44 (10x10)	2.95 to 5.5	
	STM8S208S6	●		32	4 K	1.5 K	9x10-bit	3x16-bit (8/8/11)	1x8-bit		1xSPI, 1xI²C, 2xUART (IrDA, ISO 7816), 1xCAN	1	34(15)	LQFP44 (10x10)	2.95 to 5.5	
	STM8S207S8	●		64	4 K	1.5 K	9x10-bit	3x16-bit (8/8/11)	1x8-bit		1xSPI, 1xI²C, 2xUART (IrDA, ISO 7816)	1	34(15)	LQFP44 (10x10)	2.95 to 5.5	24 MHz CPU speed, POR, BOR, SWIM, 16 MHz and 128 kHz internal RC, ICP, IAP, boot ROM, beeper, TLI
	STM8S208S8	●		64	4 K	1.5 K	9x10-bit	3x16-bit (8/8/11)	1x8-bit		1xSPI, 1xI²C, 2xUART (IrDA, ISO 7816), 1xCAN	1	34(15)	LQFP44 (10x10)	2.95 to 5.5	
	STM8S207SB	●		128	4 K	1.5 K	9x10-bit	3x16-bit (8/8/11)	1x8-bit		1xSPI, 1xI²C, 2xUART (IrDA, ISO 7816)	1	34(15)	LQFP44 (10x10)	2.95 to 5.5	
	STM8S208SB	●		128	4 K	1.5 K	9x10-bit	3x16-bit (8/8/11)	1x8-bit		1xSPI, 1xI²C, 2xUART (IrDA, ISO 7816), 1xCAN	1	34(15)	LQFP44 (10x10)	2.95 to 5.5	
48 pins	**STM8S207C6**	●		32	2 K	1 K	10x10-bit	3x16-bit (9/9/12)	1x8-bit		1xSPI, 1xI²C, 2xUART (IrDA, ISO 7816)	1	38(16)	LQFP48 (7x7)	2.95 to 5.5	24 MHz CPU speed, POR, BOR, SWIM, 16 MHz and 128 kHz internal RC, ICP, IAP, boot ROM, beeper, TLI
	STM8S208C6	●		32	6 K	2 K	10x10-bit	3x16-bit (9/9/12)	1x8-bit		1xSPI, 1xI²C, 2xUART (IrDA, ISO 7816), 1xCAN	1	38(16)	LQFP48 (7x7)	2.95 to 5.5	16 MHz CPU speed, POR, BOR, SWIM, 16 MHz and 128 kHz internal RC, ICP, IAP, boot ROM, beeper, TLI
	STM8S207C8	●		64	4 K	1.5 K	10x10-bit	3x16-bit (9/9/12)	1x8-bit		1xSPI, 1xI²C, 2xUART (IrDA, ISO 7816)	1	38(16)	LQFP48 (7x7)	2.95 to 5.5	24 MHz CPU speed, POR, BOR, SWIM, 16 MHz and 128 kHz internal RC, ICP, IAP, boot ROM, beeper, TLI
	STM8S208C8	●		64	6 K	2 K	10x10-bit	3x16-bit (9/9/12)	1x8-bit		1xSPI, 1xI²C, 2xUART (IrDA, ISO 7816), 1xCAN	1	38(16)	LQFP48 (7x7)	2.95 to 5.5	16 MHz CPU speed, POR, BOR, SWIM, 16 MHz and 128 kHz internal RC, ICP, IAP, boot ROM, beeper, TLI
	STM8S207CB	●		128	6 K	2 K	10x10-bit	3x16-bit (9/9/12)	1x8-bit	2xWDG, beep	1xSPI, 1xI²C, 2xUART (IrDA, ISO 7816)	1	38(16)	LQFP48 (7x7)	2.95 to 5.5	24 MHz CPU speed, POR, BOR, SWIM, 16 MHz and 128 kHz internal RC, ICP, IAP, boot ROM, beeper, TLI
	STM8S208CB	●		128	6 K	2 K	10x10-bit	3x16-bit (9/9/12)	1x8-bit		1xSPI, 1xI²C, 2xUART (IrDA, ISO 7816), 1xCAN	1	38(16)	LQFP48 (7x7)	2.95 to 5.5	16 MHz CPU speed, POR, BOR, SWIM, 16 MHz and 128 kHz internal RC, ICP, IAP, boot ROM, beeper, TLI
64 pins	**STM8S207R6**	●		32	2 K	1 K	16x10-bit	3x16-bit (9/9/12)	1x8-bit		1xSPI, 1xI²C, 2xUART (IrDA, ISO 7816)	1	52(16)	LQFP64 (10x10)	2.95 to 5.5	
	STM8S208R6	●		32	6 K	2 K	16x10-bit	3x16-bit (9/9/12)	1x8-bit		1xSPI, 1xI²C, 2xUART (IrDA, ISO 7816), 1xCAN	1	52(16)	LQFP64 (10x10)	2.95 to 5.5	
	STM8S207R8	●		64	4 K	1.5 K	16x10-bit	3x16-bit (9/9/12)	1x8-bit		1xSPI, 1xI²C, 2xUART (IrDA, ISO 7816)	1	52(16)	LQFP64 (10x10), LQFP64 (14x14)	2.95 to 5.5	24 MHz CPU speed, POR, BOR, SWIM, 16 MHz and 128 kHz internal RC, ICP, IAP, boot ROM, beeper, TLI
	STM8S208R8	●		64	6 K	2 K	16x10-bit	3x16-bit (9/9/12)	1x8-bit		1xSPI, 1xI²C, 2xUART (IrDA, ISO 7816), 1xCAN	1	52(16)	LQFP64 (10x10)	2.95 to 5.5	
	STM8S207RB	●		128	6K	2 K	16x10-bit	3x16-bit (9/9/12)	1x8-bit		1xSPI, 1xI²C, 2xUART (IrDA, ISO 7816)	1	52(16)	LQFP64 (10x10), LQFP64 (14x14)	2.95 to 5.5	
	STM8S208RB	●		128	6 K	2 K	16x10-bit	3x16-bit (9/9/12)	1x8-bit		1xSPI, 1xI²C, 2xUART (IrDA, ISO 7816), 1xCAN	1	52(16)	LQFP64 (10x10)	2.95 to 5.5	
80 pins	**STM8S207M8**	●		64	6 K	2 K	16x10-bit	3x16-bit (9/9/12)	1x8-bit		1xSPI, 1xI²C, 2xUART (IrDA, ISO 7816)	1	68(18)	LQFP80 (14x14)	2.95 to 5.5	
	STM8S208M8	●		64	6 K	2 K	16x10-bit	3x16-bit (9/9/12)	1x8-bit		1xSPI, 1xI²C, 2xUART (IrDA, ISO 7816), 1xCAN	1	68(18)	LQFP80 (14x14)	2.95 to 5.5	24 MHz CPU speed, POR, BOR, SWIM, 16 MHz and 128 kHz internal RC, ICP, IAP, boot ROM, beeper, TLI
	STM8S207MB	●		128	6 K	2 K	16x10-bit	3x16-bit (9/9/12)	1x8-bit		1xSPI, 1xI²C, 2xUART (IrDA, ISO 7816)	1	68(18)	LQFP80 (14x14)	2.95 to 5.5	
	STM8S208MB	●		128	6 K	2 K	16x10-bit	3x16-bit (9/9/12)	1x8-bit		1xSPI, 1xI²C, 2xUART (IrDA, ISO 7816), 1xCAN	1	68(18)	LQFP80 (14x14)	2.95 to 5.5	
STM8S10x Access line																
20 pins	**STM8S103F2**	●		4	1 K	640	5x10-bit	2x16-bit (7/7/7)	1x8-bit		1xSPI, 1xI²C, 1xUART (IrDA, ISO 7816)	1	16(12)	TSSOP20,QFN20	2.95 to 5.5	
	STM8S103F3	●		8	1 K	640	5x10-bit	2x16-bit (7/7/7)	1x8-bit			1	16(12)			
32 pins	**STM8S103K3**	●		8	1 K	640	5x10-bit	2x16-bit (7/7/10)	1x8-bit		1xSPI, 1xI²C, 1xUART (IrDA, ISO 7816)	1	28(21)	LQFP32 (7x7), QFN32 (5x5)	2.95 to 5.5	
	STM8S105K4	●		16	2 K	1 K	7x10-bit	3x16-bit (8/8/11)	1x8-bit		1xSPI, 1xI²C, 1xUART (IrDA, ISO 7816)	1	25(12)	SDIP32, LQFP32 (7x7), QFN32 (5x5)	2.95 to 5.5	
	STM8S105K6	●		32	2 K	1 K	7x10-bit	3x16-bit (8/8/11)	1x8-bit	2xWDG, beep		1	25(12)		2.95 to 5.5	16 MHz CPU speed, POR, BOR, SWIM, 16 MHz and 128 kHz internal RC, ICP, IAP, boot ROM, beeper, TLI
44 pins	**STM8S105S4**	●		16	2 K	1 K	9x10-bit	3x16-bit (8/8/11)	1x8-bit		1xSPI, 1xI²C, 1xUART (IrDA, ISO 7816)	1	34(15)	LQFP44 (10x10)	2.95 to 5.5	
	STM8S105S6	●		32	2 K	1 K	9x10-bit	3x16-bit (8/8/11)	1x8-bit			1	34(15)		2.95 to 5.5	
48 pins	**STM8S105C4**	●		16	2 K	1 K	10x10-bit	3x16-bit (9/9/12)	1x8-bit		1xSPI, 1xI²C, 1xUART (IrDA, ISO 7816)	1	38(16)	LQFP48 (7x7)	2.95 to 5.5	
	STM8S105C6	●		32	2 K	1 K	10x10-bit	3x16-bit (9/9/12)	1x8-bit			1	38(16)		2.95 to 5.5	
STM8S90x Application specific line																
20 pins	**STM8S903F3**	●		8	1 K	640	7x10-bit	2x16-bit (7/7/10)	1x8-bit	2xWDG, beep	1xSPI, 1xI²C, 1xUART (IrDA, ISO 7816)	1	16(12)	S020	2.95 to 5.5	16 MHz CPU speed, POR, BOR, SWIM, 16 MHz and 128 kHz internal RC, ICP, IAP, boot ROM, beeper, TLI
32 pins	**STM8S903K3**	●		8	1 K	640	7x10-bit	2x16-bit (7/7/10)	1x8-bit	2xWDG, beep	1xSPI, 1xI²C, 1xUART (IrDA, ISO 7816)	1	28(21)	LQFP32 (7x7) SDIP32	2.95 to 5.5	

STM8 - 8-bit microcontroller families

STM8A 8-bit microcontroller families for automotive applications

Part number		Program memory Type Flash	Program memory Type ROM	Program memory Size (Kbytes)	RAM (bytes)	Data E²PROM (bytes)	A/D inputs	Timer functions 12 or 16-bit (IC/OC/ PWM)	Timer functions 8-bit (IC/OC/ PWM)	Timer functions Others	Serial interface	LVD levels	I/Os (high current²)	Pac Kages	Supply voltage (V)	Special features
STM8AF51/61																
32 pins	**STM8AF6126**	●		8	0.5 K	384	7x10-bit	2x16-bit (6/6/6)	1x8-bit	-	LIN-UART, SPI	-	25(9)	LQFP32	2.95 to 5.5	Window and standard watchdogs, 16 MHz RC oscillator, 128 kHz RC oscillator, CSS, boot ROM, SWIM The CAN version order code prefix is STM8AF51
	STM8AF6146	●		16	1 K	0.5 K	7x10-bit	2x16-bit (6/6/6)	1x8-bit	-		-	25(9)	LQFP32	2.95 to 5.5	
	STM8AF6166	●		32	2 K	1 K	7x10-bit	3x16-bit (8/8/8)	1x8-bit	-	LIN-UART, SPI, I²C	-	25(9)	LQFP32	2.95 to 5.5	
	STM8AF6176	●		48	3 K	1.5 K	7x10-bit	3x16-bit (8/8/8)	1x8-bit	-		-	25(9)	LQFP32	2.95 to 5.5	
	STM8AF6186	●		64	4 K	1.5 K	7x10-bit	3x16-bit (8/8/8)	1x8-bit	-		-	25(9)	LQFP32	2.95 to 5.5	
48 pins	**STM8AF6148**	●		16	1 K	0.5 K	10x10-bit	3x16-bit (9/9/9)	1x8-bit	-	LIN-UART, SPI, I²C, CAN	-	38(9)	LQFP48	2.95 to 5.5	
	STM8AF6148	●		32	2 K	1 K	10x10-bit	3x16-bit (9/9/9)	1x8-bit	-		-	38(9)	LQFP48	2.95 to 5.5	
	STM8AF6178	●		48	3 K	1.5 K	10x10-bit	3x16-bit (9/9/9)	1x8-bit	-	LIN-UART, USART, SPI, I²C, CAN	-	38(9)	LQFP48	2.95 to 5.5	
	STM8AF6188	●		64	4 K	1.5 K	10x10-bit	3x16-bit (9/9/9)	1x8-bit	-		-	38(9)	LQFP48	2.95 to 5.5	
	STM8AF6198	●		96	6 K	2 K	10x10-bit	3x16-bit (9/9/9)	1x8-bit	-		-	38(9)	LQFP48	2.95 to 5.5	
	STM8AF61A8	●		128	6 K	2 K	10x10-bit	3x16-bit (9/9/9)	1x8-bit	-		-	38(9)	LQFP48	2.95 to 5.5	
64 pins	**STM8AF6169**	●		32	2 K	1 K	16x10-bit	3x16-bit (9/9/9)	1x8-bit	-	LIN-UART, USART, SPI, I²C, CAN	-	52(9)	LQFP64	2.95 to 5.5	
	STM8AF6179	●		48	3 K	1.5 K	16x10-bit	3x16-bit (9/9/9)	1x8-bit	-		-	52(9)	LQFP64	2.95 to 5.5	
	STM8AF6189	●		64	4 K	1.5 K	16x10-bit	3x16-bit (9/9/9)	1x8-bit	-		-	52(9)	LQFP64	2.95 to 5.5	
	STM8AF6199	●		96	6 K	2 K	16x10-bit	3x16-bit (9/9/9)	1x8-bit	-		-	52(9)	LQFP64	2.95 to 5.5	
	STM8AF61A9	●		128	6 K	2 K	16x10-bit	3x16-bit (9/9/9)	1x8-bit	-		-	52(9)	LQFP64	2.95 to 5.5	
80 pins	**STM8AF618A**	●		64	4 K	1.5 K	16x10-bit	3x16-bit (9/9/9)	1x8-bit	-	LIN-UART, USART, SPI, I²C, CAN	-	68(11)	LQFP80	2.95 to 5.5	
	STM8AF619A	●		96	6 K	2 K	16x10-bit	3x16-bit (9/9/9)	1x8-bit	-		-	68(11)	LQFP80	2.95 to 5.5	
	STM8AF61AA	●		128	6 K	2 K	16x10-bit	3x16-bit (9/9/9)	1x8-bit	-		-	68(11)	LQFP80	2.95 to 5.5	

STM8 - 8-bit microcontroller families

STM8L ultra-low-power 8-bit microcontrollers families

Part number		Program memory Type Flash	Program memory Type ROM	Program memory Size (Kbytes)	RAM (bytes)	Data E²PROM (bytes)	A/D inputs	Timer functions 12 or 16-bit (IC/OC/ PWM)	Timer functions 8-bit (IC/OC/ PWM)	Timer functions Others	Serial interface	LVD levels	I/Os (high current²)	Pac Kages	Supply voltage (V)	Special features
STM8L101 ultra-low-power line																
20 pins	**STM8L101F2**	●		4	1.5 K	-	-	2x16-bit (4/4/4)	1x8-bit	2xWDG, beep	1xSPI, 1xI²C, 1xUART	-	18(16)	TSSOP20, UFQFPN 20 (3x3)	1.65 to 3.6	16 MHz and 38 kHz internal RC, AWU, reset system, 2x comparators
	STM8L101F3	●		8	1.5 K	-	-	2x16-bit (4/4/4)	1x8-bit			-	18(16)	TSSOP20, UFQFPN 20 (3x3)	1.65 to 3.6	
28 pins	**STM8L101G2**	●		4	1.5 K	-	-	2x16-bit (4/4/4)	1x8-bit			-	26(24)	UFQFPN 28 (4x4)	1.65 to 3.6	
	STM8L101G3	●		8	1.5 K	-	-	2x16-bit (4/4/4)	1x8-bit			-	26(24)	UFQFPN 28 (4x4)	1.65 to 3.6	
32 pins	**STM8L101K3**	●		8	1.5 K	-	-	2x16-bit (4/4/4)	1x8-bit			-	30(28)	LQFP32 (7x7), UFQFPN 32 (5x5)	1.65 to 3.6	
STM8L151 ultra-low-power line																
28 pins	**STM8L151G4**	●		16	2 K	1 K	18x12-bit	3x16-bit (7/7/8)	1x8-bit	2xWDG, RTC, beep	1xSPI, 1xI²C, 1xUSART (IrDA, ISO 7816)	7	26(24)	UFQFPN 28 (4x4), WLCSP28 (1.7x2.9)	1.8 to 3.6	16 MHz and 32 kHz oscillator, hardware RTC, 12-bit DAC, 16 MHz and 38 kHz internal RC, 4 low-power modes, 2x comparators, DMA, reset system + BOR
	STM8L151G6	●		32	2 K	1 K	18x12-bit	3x16-bit (7/7/8)	1x8-bit			7	26(24)	UFQFPN 28 (4x4), WLCSP28 (1.7x2.9)	1.8 to 3.6	
32 pins	**STM8L151K4**	●		16	2 K	1 K	22x12-bit	3x16-bit (7/7/10)	1x8-bit			7	30(28)	LQFP32 (7x7), UFQFPN 32 (5x5)	1.8 to 3.6	
	STM8L151K6	●		32	2 K	1 K	22x12-bit	3x16-bit (7/7/10)	1x8-bit			7	30(28)	LQFP32 (7x7), UFQFPN 32 (5x5)	1.8 to 3.6	
48 pins	**STM8L151C4**	●		16	2 K	1 K	25x12-bit	3x16-bit (7/7/10)	1x8-bit			7	41(39)	LQFP48, UQFN48 (7x7)	1.8 to 3.6	
	STM8L151C6	●		32	2 K	1 K	25x12-bit	3x16-bit (7/7/10)	1x8-bit			7	41(39)	LQFP48, UQFN48 (7x7)	1.8 to 3.6	
STM8L152 ultra-low-power line																
32 pins	**STM8L152K4**	●		16	2 K	1 K	21x12-bit	3x16-bit (7/7/10)	1x8-bit	2xWDG, RTC, beep	1xSPI, 1xI²C, 1xUSART (IrDA, ISO 7816)	7	29(27)	LQFP32 (7x7), UFQFPN 32 (5x5)	1.8 to 3.6	LCD segment controller, 16 MHz and 32 kHz oscillator, hardware RTC, 12-bit DAC, 16 MHz and 38 kHz internal RC, 4 low-power modes, 2x comparators, DMA, LCD segment, reset system + BOR
48 pins	**STM8L152K6**	●		32	2 K	1 K	21x12-bit	3x16-bit (7/7/10)	1x8-bit			7	29(27)	LQFP48, UFQFPN48 (7x7)	1.8 to 3.6	
	STM8L152C4	●		16	2 K	1 K	25x12-bit	3x16-bit (7/7/10)	1x8-bit			7	41(39)	LQFP48, UFQFPN48 (7x7)	1.8 to 3.6	
	STM8L152C6	●		32	2 K	1 K	25x12-bit	3x16-bit (7/7/10)	1x8-bit			7	41(39)	LQFP48, UFQFPN48 (7x7)	1.8 to 3.6	

Established MCU families

STR7 (ARM) - 32-bit microcontrollers

	Part number	Program memory Type Flash	Program memory Type ROM	Program memory Size (Kbytes)	RAM (bytes)	Data E²PROM (bytes)	A/D inputs	Timer functions 12 or 16-bit (IC/OC/PWM)	Timer functions 8-bit (IC/ OC/PWM)	Timer functions Others	Serial interface	LVD levels	I/Os (high current²)	Packages	Supply voltage (V)	Special features
STR710 Family																
64 pins	**STR711FR0**	●		64+16	16 K	-	4x12-bit	4x16-bit (5/5/3)	-	WDG, RTC	2xSPI, 2xI²C, 4xUART, HDLC, SC, USB	-	30(0)	LQFP64	3.0 to 3.6	16-Kbyte data Flash
	STR712FR0	●		64+16	16 K	-	4x12-bit	4x16-bit (5/5/3)	-	WDG, RTC	2xSPI, 2xI²C, 4xUART, HDLC, SC, CAN	-	32(0)	LQFP64	3.0 to 3.6	
	STR715FR0	●		64+16	16 K	-	4x12-bit	4x16-bit (5/5/3)	-	WDG, RTC	2xSPI, 2xI²C, 4xUART, HDLC, SC	-	32(0)	LQFP64	3.0 to 3.6	
	STR711FR1	●		128+16	32 K	-	4x12-bit	4x16-bit (5/5/3)	-	WDG, RTC	2xSPI, 2xI²C, 4xUART, HDLC, SC, USB	-	30(0)	LQFP64	3.0 to 3.6	
	STR712FR1	●		128+16	32 K	-	4x12-bit	4x16-bit (5/5/3)	-	WDG, RTC	2xSPI, 2xI²C, 4xUART, HDLC, SC, CAN	-	32(0)	LQFP64	3.0 to 3.6	
	STR711FR2	●		256+16	64 K	-	4x12-bit	4x16-bit (5/5/3)	-	WDG, RTC	2xSPI, 2xI²C, 4xUART, HDLC, SC, USB	-	30(0)	LQFP64	3.0 to 3.6	
	STR712FR2	●		256+16	64 K	-	4x12-bit	4x16-bit (5/5/3)	-	WDG, RTC	2xSPI, 2xI²C, 4xUART, HDLC, SC, CAN	-	32(0)	LQFP64	3.0 to 3.6	
144 pins	**STR710RZ**	●			64 K	-	4x12-bit	4x16-bit (5/5/3)	-	WDG, RTC	2xSPI, 2xI²C, 4xUART, HDLC, SC, CAN, USB	-	48(8)	LFBGA144, LQFP144	3.0 to 3.6	EMI
	STR710FZ1	●		128+16	32 K	-	4x12-bit	4x16-bit (5/5/3)	-	WDG, RTC	2xSPI, 2xI²C, 4xUART, HDLC, SC, CAN, USB	-	48(8)	LFBGA144, LQFP144	3.0 to 3.6	16-Kbyte data Flash, EMI
	STR710FZ2	●		256+16	64 K	-	4x12-bit	4x16-bit (5/5/3)	-	WDG, RTC	2xSPI, 2xI²C, 4xUART, HDLC, SC, CAN, USB	-	48(8)	LFBGA144, LQFP144	3.0 to 3.6	
STR730 Family																
100 pins	**STR731FV0**	●		64	16 K	-	12x10-bit	15x16-bit (12/12/12)	-	WDG, RTC	3xSPI, 2xI²C, 4xUART, 3xCAN	-	72(0)	LQFP100	4.5 to 5.5	16 x DMA channels, on-chip RC oscillator
	STR736FV0	●		64	16 K	-	12x10-bit	15x16-bit (12/12/12)	-	WDG, RTC	3xSPI, 2xI²C, 4xUART	-	72(0)	LQFP100	4.5 to 5.5	
	STR731FV1	●		128	16 K	-	12x10-bit	15x16-bit (12/12/12)	-	WDG, RTC	3xSPI, 2xI²C, 4xUART, 3xCAN	-	72(0)	LQFP100	4.5 to 5.5	
	STR736FV1	●		128	16 K	-	12x10-bit	15x16-bit (12/12/12)	-	WDG, RTC	3xSPI, 2xI²C, 4xUART	-	72(0)	LQFP100	4.5 to 5.5	
	STR731FV2	●		256	16 K	-	12x10-bit	15x16-bit (12/12/12)	-	WDG, RTC	3xSPI, 2xI²C, 4xUART, 3xCAN	-	72(0)	LQFP100	4.5 to 5.5	
	STR736FV2	●		256	16 K	-	12x10-bit	15x16-bit (12/12/12)	-	WDG, RTC	3xSPI, 2xI²C, 4xUART	-	72(0)	LQFP100	4.5 to 5.5	
144 pins	**STR730FZ1**	●		128	16 K	-	16x10-bit	19x16-bit (20/20/16)	-	WDG, RTC	3xSPI, 2xI²C, 4xUART,3xCAN	-	112(0)	LFBGA144, LQFP144	4.5 to 5.5	
	STR735FZ1	●		128	16 K	-	16x10-bit	19x16-bit (20/20/16)	-	WDG, RTC	3xSPI, 2xI²C, 4xUART	-	112(0)	LFBGA144, LQFP144	4.5 to 5.5	
	STR730FZ2	●		256	16 K	-	16x10-bit	19x16-bit (20/20/16)	-	WDG, RTC	3xSPI, 2xI²C, 4xUART,3xCAN	-	112(0)	LFBGA144, LQFP144	4.5 to 5.5	
	STR735FZ2	●		256	16 K	-	16x10-bit	19x16-bit (20/20/16)	-	WDG, RTC	3xSPI, 2xI²C, 4xUART	-	112(0)	LFBGA144, LQFP144	4.5 to 5.5	
STR750 Family																
64 pins	**STR751FR0**	●		64	16 K	-	11x10-bit	5x16-bit (5/5/11)	-	WDG, RTC	2xSPI, I²C, 3xHS-UART, USB	-	38(7)	LQFP64	3.0 to 3.6	4x DMA, AWU, SMI, on-chip RC oscillator,MC oriented PWM, -40 to +85 °C
	STR752FR0	●		64	16 K	-	11x10-bit	5x16-bit (5/5/11)	-	WDG, RTC	2xSPI, I²C, 3xHS-UART, CAN	-	38(7)	LQFP64	3.0 to 3.6 or 4.5 to 5.5	4x DMA, AWU, SMI, on-chip RC oscillator, MC oriented PWM, -40 to +85 °C / 105 °C
	STR755FR0	●		64	16 K	-	11x10-bit	5x16-bit (5/5/11)	-	WDG, RTC	2xSPI, I²C, 3xHS-UART	-	38(7)	LQFP64	3.0 to 3.6 or	4x DMA, AWU, SMI, on-chip RC oscillator,MC oriented PWM, -40 to +85 °C
	STR751FR1	●		128	16 K	-	11x10-bit	5x16-bit (5/5/11)	-	WDG, RTC	2xSPI, I²C,3xHS-UART, USB	-	38(7)	LQFP64	3.0 to 3.6	4x DMA, AWU, SMI, on-chip RC oscillator,MC oriented PWM, -40 to +85 °C
	STR752FR1	●		128	16 K	-	11x10-bit	5x16-bit (5/5/11)	-	WDG, RTC	2xSPI, I²C,3xHS-UART, CAN	-	38(7)	LQFP64	3.0 to 3.6 or 4.5 to 5.5	4x DMA, AWU, SMI, on-chip RC oscillator, MC oriented PWM, -40 to +85 °C / 105 °C
	STR755FR1	●		128	16 K	-	11x10-bit	5x16-bit (5/5/11)	-	WDG, RTC	2xSPI, I²C, 3xHS-UART	-	38(7)	LQFP64	3.0 to 3.6 or4.5 to 5.5	4x DMA, AWU, SMI, on-chip RC oscillator,MC oriented PWM, -40 to +85 °C
	STR751FR2	●		256	16 K	-	11x10-bit	5x16-bit (6/6/12)	-	WDG, RTC	2xSSP, I²C,3xHS-UART, USB	-	38(7)	LQFP64	3 to 3.6	4x DMA, AWU, SMI, on-chip RC oscillator MC oriented PWM, -40 to +85 °C
	STR752FR2	●		256	16 K	-	11x10-bit	5x16-bit (6/6/12)	-	WDG, RTC	2xSSP, I²C, 3xHS-UART, CAN	-	38(7)	LQFP64	3.0 to 3.6 or 4.5 to 5.5	4x DMA, AWU, SMI, on-chip RC oscillator, MC oriented PWM, -40 to +85 °C / 105 °C
	STR755FR2	●		256	16 K	-	11x10-bit	5x16-bit (6/6/12)	-	WDG, RTC	2xSSP, I²C, 3xHS-UART	-	38(7)	LQFP64	3.0 to 3.6 or 4.5 to 5.5	4x DMA, AWU, SMI, on-chip RC oscillator MC oriented PWM, -40 to +85 °C
100 pins	**STR750FV0**	●		64	16 K	-	16x10-bit	5x16-bit (6/6/12)	-	WDG, RTC	2xSPI, I²C, 3xHS-UART, CAN, USB	-	72(9)	LQFP100, BGA100	3.0 to 3.6 or 4.5 to 5.5 (without USB)	4x DMA, AWU, SMI, on-chip RC oscillator MC oriented PWM, -40 to +85 °C
	STR755FV0	●		64	16 K	-	16x10-bit	5x16-bit (6/6/12)	-	WDG, RTC	2xSPI, I²C, 3xHS-UART	-	72(9)	LQFP100, BGA100	3.0 to 3.6 or 4.5 to 5.5 (without USB)	
	STR750FV1	●		128	16 K	-	16x10-bit	5x16-bit (6/6/12)	-	WDG, RTC	2xSPI, I²C, 3xHS-UART,CAN, USB	-	72(9)	LQFP100, BGA100	3.0 to 3.6 or 4.5 to 5.5 (without USB)	
	STR755FV1	●		128	16 K	-	16x10-bit	5x16-bit (6/6/12)	-	WDG, RTC	2xSPI, I²C, 3xHS-UART	-	72(9)	LQFP100, BGA100	3.0 to 3.6 or 4.5 to 5.5 (without USB)	
	STR750FV2	●		256	16 K	-	16x10-bit	5x16-bit (6/6/12)	-	WDG, RTC	2xSPI, I²C, 3xHS-UART, CAN, USB	-	72(9)	LQFP100, BGA100	3.0 to 3.6 or 4.5 to 5.5 (without USB)	
	STR755FV2	●		256	16 K	-	16x10-bit	5x16-bit (6/6/12)	-	WDG, RTC	2xSPI, I²C, 3xHS-UART	-	72(9)	LQFP100, BGA100	3.0 to 3.6 or 4.5 to 5.5 (without USB)	

Established MCU families

	Part number	Program memory			RAM (bytes)	Data E²PROM (bytes)	A/D inputs	Timer functions			Serial interface	LVD levels	I/Os (high current²)	Packages	Supply voltage (V)	Special features
		Type		Size				12 or 16-bit (IC/OC/PWM)	8-bit (IC/OC/PWM)	Others						
		Flash	ROM	(Kbytes)												
STR9 (ARM) - 32-bit microcontrollers																
	STR91x Family															
80 pins	**STR910FAM32**	●		256+32	64 K	-	8x10-bit	7x16-bit (8/8/7)	-	WDG, 1 µA RTC	CAN, 3xUART, 2xfast I²C, 2xSPI	2	40(16)	LQFP80	CPU core: 1.8 +/-10% I/O ring: selectable: 2.7 to 3.3 or 3.0 to 3.6	96 MHz ARM9E CPU core, 9xDMA, brown-out warning, 3-phase AC MC, ETM trace
	STR911FAM42	●		256+32	96 K	-	8x10-bit	7x16-bit (8/8/7)	-	WDG, 1 µA RTC	USB, CAN, 3xUART, 2xfast I²C, 2xSPI	2	40(16)	LQFP80		
	STR911FAM44	●		512+32	96 K	-	8x10-bit	7x16-bit (8/8/7)	-	WDG, 1 µA RTC		2	40(16)	LQFP80		
128 pins	**STR910FAW32**	●		256+32	64 K	-	8x10-bit	7x16-bit (8/8/7)	-	WDG, 1 µA RTC	CAN, 3xUART, 2xfast I²C, 2xSPI	2	80(16)	LQFP128		96 MHz ARM9E CPU core, 9xDMA, brown-out warning, 3-phase AC MC, ETM trace, tamper detect, EMI
	STR911FAW42	●		256+32	96 K	-	8x10-bit	7x16-bit (8/8/7)	-	WDG, 1 µA RTC	USB, CAN, 3xUART, 2xfast I²C, 2xSPI	2	80(16)	LQFP128		
	STR911FAW44	●		512+32	96 K	-	8x10-bit	7x16-bit (8/8/7)	-	WDG, 1 µA RTC		2	80(16)	LQFP128		
	STR912FAW32	●		256+32	64 K	-	8x10-bit	7x16-bit (8/8/7)	-	WDG, 1 µA RTC	Ethernet, USB, CAN, 3xUART, 2xfast I²C, 2xSPI	2	80(16)	LQFP128		
	STR912FAW42	●		256+32	96 K	-	8x10-bit	7x16-bit (8/8/7)	-	WDG, 1 µA RTC		2	80(16)	LQFP128		
	STR912FAW44	●		512+32	96 K	-	8x10-bit	7x16-bit (8/8/7)	-	WDG, 1 µA RTC		2	80(16)	LQFP128		
144 pins	**STR910FAZ32**	●		256+32	64 K	-	8x10-bit	7x16-bit (8/8/7)	-	WDG, 1 µA RTC	CAN, 3xUART, 2xfast I²C, 2xSPI	2	80(16)	LFBGA144		96 MHz ARM9E CPU core, 9xDMA, brown-out warning, 3-phase AC MC, ETM trace, tamper detect, EMI
	STR912FAZ42	●		256+32	96 K	-	8x10-bit	7x16-bit (8/8/7)	-	WDG, 1 µA RTC	Ethernet, USB, CAN, 3xUART, 2xfast I²C, 2xSPI	2	80(16)	LFBGA144		
	STR912FAZ44	●		256+32	96 K	-	8x10-bit	7x16-bit (8/8/7)	-	WDG, 1 µA RTC		2	80(16)	LFBGA144		

Established MCU families

	Part number	Program memory			RAM (bytes)	Data E²PROM (bytes)	A/D inputs	Timer functions			Serial interface	LVD levels	I/Os (high current²)	Packages	Supply voltage (V)	Special features
		Type		Size				12 or 16-bit (IC/OC/PWM)	8-bit (IC/OC/PWM)	Others						
		Flash	ROM	(Kbytes)												
ST10 - 16-bit microcontrollers																
	ST10 Family															
100 pins	**ST10R172L**			-	1 K	-	-	5x16-bit	-	WDG	USART, SSP	-	77	LQFP100	3.3	50 MHz, ROMless, PEC, PWM, EMI
	ST10R272L			-	1 K	-	-	5x16-bit	-	WDG	USART, SSP	-	77	LQFP100	3.3	50 MHz, ROMless, PEC, PWM, MAC, EMI
144 pins	**ST10R167-Q**			-	4 K	-	16x10-bit	5x16-bit	-	WDG	USART, SSC, CAN	-	111	PQFP144	4.5 to 5.5	25 MHz, ROMless, PEC, PWM, CAPCOM, EMI
	ST10F271Z1	●		128	12 K	-	24x10-bit	5x16-bit	-	WDG, RTC	I²C, 2xUART, 2xSSC, 2xCAN	-	111	PQFP144	4.5 to 5.5	40 MHz, PEC, CAN, PWM, CAPCOM, MAC
	ST10F269Z2	●		256	12 K	-	16x10-bit	5x16-bit	-	WDG	USART, SSC, 2xCAN	-	111	LQFP144, PQFP144	4.5 to 5.5	
	ST10F272Z2	●		256	20 K	-	24x10-bit	5x16-bit	-	WDG, RTC	UART, SSC, 2xCAN	-	111	LQFP144, PQFP144	4.5 to 5.5	64 MHz, PEC, PWM, CAPCOM, MAC, EMI
	ST10F273Z4	●		512	36 K	-	24x10-bit	5x16-bit	-	WDG, RTC	I²C, 2xUART, 2xSSC, 2xCAN	-	111	LQFP144, PQFP144	4.5 to 5.5	
	ST10F276Z5	●		832	68 K	-	24x10-bit	5x16-bit	-	WDG, RTC	I²C, 2xUART, 2xSSC, 2xCAN	-	111	LQFP144, PQFP144	4.5 to 5.5	

	Part number	Program memory			RAM (bytes)	Data E²PROM (bytes)	A/D inputs	Timer functions			Serial interface	LVD levels	I/Os (high current²)	Packages	Supply voltage (V)	Special features
		Type		Size				12 or 16-bit (IC/OC/PWM)	8-bit (IC/OC/PWM)	Others						
		Flash	ROM	(Kbytes)												
ST6 - 8-bit microcontrollers																
	ST6 Family															
16 pins	**ST6200C1**	[6]	●	1	64	-	4x8-bit	-	1(0/0/0)	WDG	-	1	9(3)	DIP16, SO16	3.0 to 6.0	RC oscillator, OSG, ROP
	ST6203C1	[6]	●	1	64	-	-	-	1(0/0/0)	WDG	-	1	9(3)	DIP16, SO16	3.0 to 6.0	
	ST6201C1	[6]	●	2	64	-	4x8-bit	-	1(0/0/0)	WDG	-	1	9(3)	DIP16, SO16	3.0 to 6.0	
20 pins	**ST6210C1**	[6]	●	2	64	-	8x8-bit	-	1(0/0/0)	WDG	-	1	12(4)	DIP20, SO20	3.0 to 6.0	
	ST6220C1	[6]	●	4	64	-	8x8-bit	-	1(0/0/0)	WDG	-	1	12(4)	DIP20, SO20	3.0 to 6.0	
28 pins	**ST6225C1**	[6]	●	4	64	-	16x8-bit	-	1(0/0/0)	WDG	-	1	20(4)	DIP28, SO28	3.0 to 6.0	

Established MCU families

ST7 - 8-bit microcontrollers

Part number		Program memory: Type: Flash	Program memory: Type: ROM	Program memory: Size: (Kbytes)	RAM (bytes)	Data E²PROM (bytes)	A/D inputs	Timer functions: 12 or 16-bit (IC/OC/PWM)	Timer functions: 8-bit (IC/ OC/PWM)	Timer functions: Others	Serial interface	LVD levels	I/Os (high current²)	Packages	Supply voltage (V)	Special features
ST7Lite																
8 pins	**ST7LITEU09**	I5,6		2	128	128	5x10-bit	1x12-bit (0/1/1)	1(1/0/0)	WDG, RTC	SPI	3	5(5)	DIP8, SO8	2.4 to 5.5	8 MHz internal RC oscillator, AWU, ROP, ICP, IAP, 5 I/Os + 1 additional output
16 pins	**ST7LITE09Y0**	I5		1.5	128	128	5x8-bit	1x12-bit (0/1/1)	1(1/0/0)	WDG, RTC	SPI	3	13(6)	DIP16, SO16	2.4 to 5.5	1 % internal RC oscillator, PLL, ADC with op-amp, ROP, ICP, IAP
	ST7LIT19BY0	I5		2	256	128	7x10-bit	2x12-bit (1/4/4)	2(1/0/0)	WDG, RTC	SPI	3	13(5)	DIP16, SO16	2.7 to 5.5	1 % internal RC oscillator, PLL, 32 MHz timer,ART with deadtime and enhanced one-pulse mode, AWU, ADC with op-amp, analog comparator, ROP, ICP, IAP, debug module
	ST7LIT19BY1	I5		4	256	128	7x10-bit	-	2(1/0/0)	WDG, RTC	SPI	3	13(5)	DIP16, SO16	2.7 to 5.5	
20 pins	**ST7LIT19BF0**	I5		2	256	128	7x10-bit	2x12-bit (1/4/4)	2(1/0/0)	WDG, RTC	SPI	3	17(7)	DIP20, SO20, QFN20	2.7 to 5.5	
	ST7LIT19BF1	I5		4	256	128	7x10-bit		2(1/0/0)	WDG, RTC	SPI	3	17(7)	DIP20, SO20, QFN20	2.7 to 5.5	
	ST7DALIF2	I5,6		8	384	256	7x10-bit	1x12-bit (1/4/4)	2(1/0/0)	WDG, RTC	SPI, DALI	3	15(7)	SO20	2.4 to 5.5	1 % internal RC oscillator, PLL, 32 MHz timer, DALI, AWU, ADC with op-amp, ROP, ICP, IAP, debug module
ST7 DiSEqC™																
16 pins	**ST7LNB0V2Y0**	I6	●	1.5	128	128	-	-	-	-	-	-	13(6)	SO16	4.5 to 5.5	DiSEqC™ 2.1 interface, 22 kHz tone detector
	ST7LNB1Y0	I6	●	1.5	128	128	-	-	-	-	-	-	13(6)			DiSEqC™ interface, SatCR control
ST7 motor control																
32 pins	**ST7MC1K2**	I4,6		8	384	-	8x10-bit	1x16-bit (2/2/1)	1(1/0/1)	WWDG	LINSCI	1	17(3)	LQFP32, SDIP32	4.5 to 5.5	Sensorless brushless motor control cell, ICD, ICP, IAP, LVD, CSS/PLL, ROP, RTC, nested interrupts
	ST7MC1K4	I4,6		16	768	-	8x10-bit	-	1(1/0/1)	WWDG	LINSCI	1	17(3)	LQFP32, SDIP32	4.5 to 5.5	
44 pins	**ST7MC2S4**	I4,6		16	768	-	11x10-bit	2x16-bit (2/2/1)	1(1/0/1)	WWDG	LINSCI, SPI	1	26(6)	LQFP44	4.5 to 5.5	
	ST7MC2S6	I4,6		32	1 K	-	11x10-bit	2x16-bit (2/2/1)	1(1/0/1)	WWDG	LINSCI, SPI	1	26(6)	LQFP44	4.5 to 5.5	Sensorless brushless motor control cell, ICD, ICP, IAP, LVD, CSS/PLL, ROP, RTC, nested interrupts
	ST7MC2S7	I4,6		48	1.5 K	-	11x10-bit	2x16-bit (2/2/1)	1(1/0/1)	WWDG	LINSCI, SPI	1	26(6)	LQFP44	4.5 to 5.5	
64 pins	**ST7MC2R6**	I4,6		32	1 K	-	16x10-bit	2x16-bit (2/2/2)	1(2/0/4)	WWDG	LINSCI, SPI	1	44(12)	LQFP64	4.5 to 5.5	Sensorless brushless motor control cell, ICD, ICP, IAP, LVD, CSS/PLL, ROP, RTC, nested interrupts, beep3
	ST7MC2R7	I4,6		48	1.5 K	-	16x10-bit	2x16-bit (2/2/2)	1(2/0/4)	WWDG	LINSCI, SPI	1	44(12)	LQFP64	4.5 to 5.5	
	ST7MC2M9	I4,6		60	1.5 K	-	16x10-bit	2x16-bit (2/2/2)	1(2/0/4)	WWDG	LINSCI, SPI	1	60(12)	LQFP80	4.5 to 5.5	

Established MCU families

Part number		Program memory: Type: Flash	Program memory: Type: ROM	Program memory: Size: (Kbytes)	RAM (bytes)	Data E²PROM (bytes)	A/D inputs	Timer functions: 12 or 16-bit (IC/OC/PWM)	Timer functions: 8-bit (IC/ OC/PWM)	Timer functions: Others	Serial interface	LVD levels	I/Os (high current²)	Packages	Supply voltage (V)	Special features
ST7 SCR																
24 pins	**ST7GEME4**		●	16	768	-	-	-	1(0/0/0)	WDG	USB, ISO 7816	1	4(1)	SO24, QFN24	4.0 to 5.5	Turnkey firmware from Gemalto
	ST7SCR1E4	I4,6	●	16	768	-	-	-	1(0/0/0)	WDG	USB, ISO 7816	1	4	SO24, QFN24	4.0 to 5.5	Smartcard power supply unit, ISO 7816, 7 full-speed USB endpoints, ICP, IAP, 4 LED outputs
64 pins	**ST7SCR1R4**	I4,6	●	16	768	-	-	-	1(0/0/0)	WDG	USB, ISO 7816	1	35	LQFP64	4.0 to 5.5	
ST7 full-speed USB																
64 pins	**ST72651AR6**	I4,6		32	5 K	-	8x8-bit	1x16-bit (0/2/2)	-	WDG	USB, DTC, I²C, SPI	1	47(11)	LQFP64 (10x10)	2.7 to 5.5	DSC, PVR, ROP, 5 full-speed USB endpoints, ICP, IAP
ST7 low-speed USB																
24 pins	**ST7260E1**	I4		4	384	-	-	1x16-bit (2/1/1)	-	WDG	USB, SCI	1	14(6)	SO24	4.0 to 5.5	3 low-speed USB endpoints, ICP, IAP, ROP
	ST7263BE1	I4		4	384	-	-	1x16-bit (2/1/1)	-	WDG	USB, SCI, I²C	1	14(6)	SO24	4.0 to 5.5	
	ST7260E2	I4		8	384	-	-	1x16-bit (2/1/1)	-	WDG	USB, SCI	1	14(6)	SO24	4.0 to 5.5	
	ST7263BE2	I4		8	384	-	-	1x16-bit (2/1/1)	-	WDG	USB, SCI, I²C	1	14(6)	SO24	4.0 to 5.5	
	ST7263BE4	I4		16	512	-	-	1x16-bit (2/1/1)	-	WDG	USB, SCI, I²C	1	14(6)	SO24	4.0 to 5.5	
	ST7263BE6	I4		32	1 K	-	-	1x16-bit (2/1/1)	-	WDG	USB, SCI, I²C	1	14(6)	SO24	4.0 to 5.5	
32-34 pins	**ST7263BK1**	I4	●	4	384	-	8x8-bit	1x16-bit (2/2/1)	-	WDG	USB	1	19(10)	SDIP32, SO34	4.0 to 5.5	
	ST7263BK2	I4	●	8	384	-	8x8-bit	1x16-bit (2/2/1)	-	WDG	USB, SCI	1	19(10)	SDIP32, SO34, QFN40	4.0 to 5.5	
	ST7263BK4	I4		16	512	-	8x8-bit	1x16-bit (2/2/1)	-	WDG	USB, SCI, I²C	1	19(10)	SDIP32, SO34	4.0 to 5.5	
	ST7263BK6	I4		32	1 K	-	8x8-bit	-	-	WDG	USB, SCI, I²C	1	19(10)	SDIP32, SO34	4.0 to 5.5	
40 pins	**ST7260K1**	I4,6		4	384	-	-	1x16-bit (2/2/1)	-	WDG	USB, SCI	1	19(10)	QFN40	4.0 to 5.5	
	ST7260K2	I4		8	384	-	-	1x16-bit (2/2/1)	-	WDG	USB, SCI	1	19(10)	QFN40	4.0 to 5.5	
	ST7263BD6	I4		32	1 K	-	12x8-bit	-	-	WDG	USB, SCI, I²C	1	27(10)	QFN40	4.0 to 5.5	
48 pins	**ST7263BH2**	I4		8	384	-	12x8-bit	1x16-bit (2/2/1)	-	WDG	USB, SCI, I²C	1	27(10)	LQFP48 (7x7)	4.0 to 5.5	
	ST7263BH6	I4		32	1 K	-	12x8-bit	1x16-bit (2/2/1)	-	WDG	USB, SCI, I²C	1	27(10)	LQFP48 (7x7)	4.0 to 5.5	

8-, 16- and 32-bit microcontroller development tools

This reference guide lists ST and third-party development tools that are promoted as part of the ST tool offer for 8-, 16- and 32-bit microcontrollers. For the latest news about this tool offer, please refer to www.st.com/mcu

Evaluation

Evaluation boards from ST

- Implement full range of device features
- Come with complete schematics, documentation and code samples

Starter kits

- Everything you need to start developing quickly and easily
- Immediate device evaluation with ready-to-run demonstration applications
- In-circuit debugging to troubleshoot code using actual input/output of target system

Low-cost evaluation boards are also available from third-party vendors.

Development

In-circuit debugger/programmers

- Real-time debugging using debug resources on the standard chip, no bondouts, 100% electrical characteristics guaranteed
- Requires separate evaluation or application board
- RLink – debug and program a full range of ST MCUs from 8 to 32 bits
- ST-LINK – debug and program STM8 and STM32 families

Advanced emulation systems for 8-bit devices

- Real-time emulation
- Advanced breakpoints
- Trace capability with complex triggering
- Code performance analysis

Software

- Free software toolsets with development environment, programming interface, integrated compiler support and more
- C compilers with free versions that output code up to a specified size
- Free ST firmware libraries for all standard peripherals plus special package for USB, motor control and more
- Large selection of development solutions (IDE + compiler) from leading tool suppliers for ARM
- Large selection of royalty-free RTOS, solution stacks (TCP/IP, USB, …) and middleware

Programming

In-circuit programmers

Program the device on an application board via JTAG, in-circuit communication or in-situ programming interface (depends on target device)

Automated programmers

Third-party solutions for programming in a production environment.
For a list of vendors, refer to www.st.com/mcu

Single position programmers

Third-party solutions for programming one device at a time.
Allows operation from a host PC, or in standalone mode.
For a list of vendors, refer to www.st.com/mcu

Gang programmers

Third-party solutions for programming several devices at once.
For a list of vendors, refer to www.st.com/mcu

STM32, STR9 and STR7 families

Tools for ST ARM® core based STM32, STR9 and STR7 families include a full range of third-party solutions that come complete with C/C++ compiler, integrated development environment and in-circuit debugger/programmer with industry standard JTAG interface. Explore and start applications easily with any of a range of affordable, easy-to-use starter kits. Take advantage of a range of firmware to speed application development, including free ST libraries and royalty-free RTOS, solution stacks (USB, TCP/IP, ...) and middleware.

Evaluation	**Discovery kit** The cheapest and quickest way to discover the STM32 Value line. Embedded ST-LINK included to debug applications Order code type: STM32VLDISCOVERY) **Evaluation boards** **ST evaluation boards:** Implement the full range of device peripherals and features for each family. STM32F10x (Ethernet, USB OTG, USB, CAN, RS-232, IrDA, FSMC, SDIO, I²S, DAC), STR91x (Ethernet, USB, CAN, RS-232, IrDA, trace tool support), STR75x (USB, CAN, RS-232), STR73x (CAN, RS-232), STR71x (USB, CAN, RS-232). (Order code types: STxxxx-EVAL) **Starter kits** **STM32 Primers**: Fun, stimulating learning and development platforms with touchscreen LCD, MEMS-based controls and integrated debugging/programming via USB. Includes Raisonance RIDE (debug up to 32 Kbytes of code) and GNU C/C++ compiler. (Order code types: STMxxxxPRIMER) **STM32-ComStick**: Low-cost evaluation and development package for Ethernet, USB Host connectivity with STM32F107, includes debugging/programming via dedicated USB, unlimited Hitex tool set (HiTOP5 IDE, Tasking VX compiler). (Order code: STM32-COMSTICK) **STM32 PerformanceStick and STM32 PerformanceStick2**: Your window to explore STM32 performance. Includes integrated debugging/programming via USB, unlimited Hitex HiTOP5, Tasking VX compiler and DashBoard GUI for device performance evaluation. (Order Code: STM3210B-PFSTICK and STM3210E-SK/HIT) **STM32 motor control starter kit**: Complete, ready-to-run application for motor control with vector-based algorithms. Includes sensor and sensorless libraries, demo application, STM32 control board, hardware platform for vector drive of three-phase PMSM and induction motors, opto-isolation, and Segger J-Link (USB/JTAG) for host PC interface. (Order code: STM3210B-MCKIT) **Hitex STM32 starter kits**: Unlimited HiTOP5, Tasking VX compiler, STM32-PerformanceStick with integrated debugging/programming via USB, extension I/O board with peripheral evaluation features, DashBoard GUI. (Order code: STM3210B-SK/HIT and STM3210E-SK/HIT) **Hitex STRx starter kits**: HiTOP5 (16-Kbyte code-size limited version) with GNU C/C++ compiler, debugger, Tantino (USB/JTAG) and evaluation board for either STR912F, STR750F, STR730F, or STR710F. (Order code types: STxxxx-SK/HIT) **IAR starter kits**: Embedded workbench for ARM (EWARM 32-Kbyte code-size limited version), C/C++ compiler, J-Link (USB/JTAG) and IAR demonstration board for either STM32F10x, STR912F, STR750F, STR731F, STR730F, STR712F, or STR711F. (Order code types: STxxxx-SK/IAR) **Keil starter kits**: RealView microcontroller development kit for ARM (32-Kbyte code-size limited version) with U-LINK (USB/JTAG) and evaluation board for either STM32F10x, STR912F or STR750F. (Order codes types: STxxxx-SK/KEIL) **Raisonance REva starter kits**: RIDE (32-Kbyte code-size limited version), GNU C/C++ compiler, RLink (USB/JTAG), REva demonstration motherboard (CAN, RS-232, I/Os, etc.) and daughter boards for STM32F10x, STR912F, STR750F, STR730F, STR711F or STR712F. (Order code types: STxxxx-SK/RAIS) **STR9-ComStick**: Low-cost evaluation and development package for Ethernet, USB and CAN connectivity with STR9, includes debugging/programming via dedicated USB, unlimited Hitex tool set (HiTOP5 IDE, GNU C/C++ compiler). (Order code: STR9-COMSTICK)
Development	**Development environments** Choose from a full range of development solutions that deliver start-to-finish control of application development from a single integrated development environment from third parties (see table) **Atollic TrueSTUDIO Lite version** available for free for the STM32, unlimited code-size and usage-time **Software package with in-circuit debugger/programmer** **STX-PRO/RAIS**: Raisonance developer's kit for ARM core-base MCUs with unlimited RIDE integrated development environment, GNU C/C++ compiler and RLink (USB/JTAG)
Software	**RTOS, stack software and libraries**: A full range of portable embedded system software, TCP/IP stacks and several royalty-free, small-footprint operating systems from a range of third parties (see table) Free ST library packages for all standard device peripherals, USB, and motor control. Refer to www.st.com/mcu
Programming	A complete range of programming solutions from single-position to automated are available from third-party vendors. For updated listings, refer to www.st.com/mcu **ST-LINK:** very low cost solution for programming STM8 and STM32 families **RLink** from Raisonance provides a low-cost solution for programming a complete range of ST microcontrollers from 8 to 32 bits **FlashRunner** from SMH Technologies provides in-circuit programming for ST microcontrollers that is ready to integrate into production/test equipment **Flasher ARM**, Segger Microcontroller Systems' in-circuit programmer with standalone mode for production environment

All part numbers shown are for STMicroelectronics and third-party tools (Hitex, IAR, Keil and Raisonance) which are available from ST.
Additional tools that are not available through ST can be ordered from the third-parties listed.

STM32, STR9 and STR7 families

Development and programming tools

Device	Evaluation		Development environment available from ST	C/C++ compiler	3rd-party development environment	RTOS and stack software	Programmer
	Evaluation board	Starter kit					
STM32F10x	STM3210B-EVAL STM3210C-EVAL STM3210E-EVAL STM32100B-EVAL	STM32VLDISCOVERY STMPRIMER-BASE STM3210E-PRIMER STM3210C-PRIMER STM32-COMSTICK STM3210B-PFSTICK STM3210B-MCKIT STM3210B-SK/HIT STM3210B-SK/IAR STM3210B-SK/KEIL STM3210B-SK/RAIS STM3210C-SK/IAR STM3210C-SK/KEIL STM3210C-SK/RAIS STM3210E-SK/HIT STM3210E-SK/IAR STM3210E-SK/KEIL	**Software with in-circuit emulator:** STX-PRO/RAIS **Software/hardware package supporting STR9 trace capability:** STR91X-DK/IAR STR9-DK/RAIS	ARM www.arm.com GNU gcc.gnu.org GreenHills www.ghs.com IAR www.iar.com Keil www.keil.com Altium/Tasking www.tasking.com	Aiji System www.aijisystem.com Altium/Tasking www.tasking.com ARM www.arm.com Ashling www.ashling.com Atollic www.atollic.com Embest www.embedinfo.com Green Hills Software www.ghs.com Hitex www.hitex.com IAR www.iar.com iSYSTEM www.isystem.com Keil www.keil.com Lauterbach www.lauterbach.com Nohau www.icetech.com PLS www.pls-mc.com Raisonance www.raisonance.com Rowley www.rowley.co.uk Signum www.signum.com	CMX www.cmx.com eCosCentric www.ecoscentric.com Express Logic www.rtos.com freeRTOS www.freertos.org GreenHills www.ghs.com HCC-Embedded www.hcc-embedded.com IAR www.iar.com InterNiche www.iniche.com Keil www.keil.com Micrium www.micrium.com Micro Digital www.smxrtos.com Port www.epl-tools.com Quadros www.quadros.com Segger www.segger.com uCinux www.uclinux.org Wittenstein High Integrity Systems www.highintegritysystems.com	**From ST:** **ST-LINK** **STX-RLINK** Third-parties: BP Microsystems www.bpmicro.com Dataman www.dataman.com Data I/O www.data-io.com Elnec www.elnec.sk Hitex www.hitex.com Leap www.leap.com.tw PLS www.pls-mc.com Raisonance www.raisonance.com RK-System www.rk-system.com.pl Segger www.segger.com SMH Technologies www.smh-tech.com Systems General www.sg.com.tw Xeltec www.xeltec.com
STM32W108	-	STM32W108B-SK STM32W108B-KEXT					
STR91xF	STR910-EVAL	STR9-COMSTICK STR91X-SK/HIT STR91X-SK/IAR STR91X-SK/KEI STR91X-SK/RAI					
STR750xF	STR750-EVAL	STR750-SK/HIT STR750-SK/IAR STR750-SK/KEIL STR750-SK/RAIS					
STR73xF	STR730-EVAL	STR730-SK/HIT STR730-SK/IAR STR730-SK/RAIS STR731-SK/IAR Keil: www.keil.com					
STR71xF	STR710-EVAL	STR71X-SK/RAIS STR710-SK/HIT STR711-SK/IAR STR712-SK/IAR Keil: www.keil.com					

ST10 family

ST10 development and programming tools

Part number	Software	Evaluation board	Emulator/debugger	Programmer
ST10R167 **ST10R172** **ST10R272** **ST10F269** **ST10F271** **ST10F272** **ST10F273** **ST10F276**	**C Toolchain** Cosmic www.cosmic-software.com Keil www.keil.com Tasking www.tasking.com GNU (HighTec) www.hightec-rt.com **Real-time kernel** CMX www.cmx.com OSE166 www.ose.com RTX166 www.keil.com PXROS www.hightec-rt.com EUROS www.euros-embedded.com µC/OS-II Micrium www.micrium.com **OSEK** osCAN www.vector-informatik.com ProOSEK www.3soft.com OSEKWorks www.windriver.com	Phytec www.phytec.com Rigel www.rigelcorp.com	Hitex www.hitex.com Lauterbach www.lauterbach.com Nohau www.icetech.com PLS www.pls-mc.com	BP Microsystems www.bpmicro.com

STM8 families

Evaluation

Discovery kit

The cheapest and quickest way to discover the STM8 families with touch sensing button. Embedded ST-LINK included to debug applications.
(Order code types: STM8xx-DISCOVERY)

Evaluation boards

Open-platform evaluation boards that are distributed by ST and implement the complete range of device peripherals. These include:

- **ST evaluation boards:** general-purpose evaluation boards for STM8A, STM8S and STM8L devices with hardware features for evaluating microcontroller performance, low-power options and full range of peripherals such as SPI, I²C EEPROM, RS-232 and more...
  (Order code types: STM8xxx-EVAL)

Starter kits

Complete sets of hardware and software tools to help users discover target device features and start application development quickly and easily:

- **STM8L Primer**: Fun, stimulating learning and development platforms with touchscreen LCD, MEMS-based controls and integrated debugging/programming via USB for the STM8L15x. Includes Raisonance RIDE and STM8 C compiler (compiles up to 16 Kbytes of code).
  (Order code STM8L1526PRIMER)
- **Raisonance REva starter kits for STM8S and STM8L**, STM8S-Discovery for STM8S, STM8A with integrated development environment, C compiler for STM8, RLink (USB/JTAG) for the REva kit or ST-Link (USB) for STM8-Discovery, in-circuit debugger/programmer, demonstration motherboard and daughter board with STM8S, STM8A and STM8L target devices.

Software

Application development is supported by a range of software tools that include integrated development environments (IDE) and C compiler/assembler toolchains. Free software development tools include:

- **ST MCU Toolset** with ST Visual Develop (STVD) IDE and ST Visual Programmer (STVP) programming interface in a single, free download.
- **EWSTM8,** IAR Embedded Workbench for STM8 with its optimizing C compiler and supporting ST STice and ST-LINK hardware debug tools.
- **Ride**, Raisonance's free IDE for ST microcontrollers, which includes the innovative RBuilder application builder and the RFlasher programming interface.
- **C Compilers** include toolchains from Cosmic, IAR and Raisonance, which are both available in free versions that output from 8 to up to 32 Kbytes.

Development

Debugging tools

The STice in-circuit emulation system offers the most advanced debugging and diagnostic features available (freely configurable advanced breakpoints, trace, code coverage, profiling) when running applications in place of the target microcontroller, plus the added flexibility of in-circuit debugging and programming capability for start-to-finish control of application development.

- **STice** advanced in-circuit emulation system for ST microcontrollers

In-circuit debugger/programmers provide low-cost solutions for programming the target device on an application board, and debugging the application while it runs on the target microcontroller.

- **RLink** from Raisonance for STM8A, STM8L, STM8S, ST7, µPSD, STR7, STR9 and STM32 microcontrollers
- **ST-LINK** from ST for STM8A, STM8L, STM8S and STM32 microcontrollers

Accessories

STM8 accessories adapt STice to support a specific STM8 microcontroller or sub-family. This modularity also allows the system to be adapted to future ST microcontrollers.
STice accessories and spares include parts that allow connection of the STice to an application board in place of the target microcontroller. The connection accessories must be specified when ordering the STice system.

Programming

In-circuit programmers

Allow you to program the STM8 Flash microcontroller on your application board via a 4-pin single wire interface module (SWIM) connector. In-circuit programmers include:

- **RLink**: Raisonance's in-circuit programmer/debugger for STM8S, STM8L, ST7, µPSD, STR7, STR9 and STM32 with USB host interface
- **ST-LINK**: ST's in-circuit debugger/programmer for STM8A, STM8L, STM8S and STM32 with USB host interface
- **Flasher**: in-circuit programmer with standalone mode for production environment from Segger Microcontroller Systeme GmbH
- **FlashRunner**: in-circuit programming system for production lines featuring standalone operation and easy integration in production and test equipment

Production programming solutions include multi-site (gang) and automated programming solutions from third-parties

STM8 family

Development and programming tools

Part number	Evaluation		In-circuit debugger	Emulator			Software	Programming tool	
	Evaluation board	Starter kit		STice system	Connection accessories			In-circuit programmer	3rd-party programmer
STM8Sx	STM8/128-EVAL	STM8/128-SK/RAIS STM8/128-D/RAIS STM8S-Discovery	ST-LINK STX-RLINK	STICE-SYS001	Flex CF/FP60 CF/FP120 Adapter AD/QFP32B-A03 AD/QFP44C-A02 AD/QFP48B-A03 AD/QFP64C-B02 AD/QFP80F-B01 AD/QFN32A-Z02	Socket AS/QFP32BC AS/QFP44CC AS/QFP48BA AS/QFP63CA AS/QFP80FB AS/QFN32AA In-circuit debug/Pgm adapter AD-ICD/ICP	STVD STVP IAR EWSTM8 Raisonance RIDE Cosmic C compiler IAR C compiler Raisonance C compiler	ST-LINK STX-RLINK Flasher Segger FlashRunner SMH Technologies	BP Microsystems www.bpmicro.com Data I/O www.data-io.com Dataman www.dataman.com Elnec www.elnec.com HI-LO www.hilosystems.com.tw Phyton www.phyton.com RK-System www.rk-system.com.pl Segger www.segger.com SMH Technologies www.smh-tech.com System General www.sg.com Xeltek www.xeltek.com
STM8Ax	CB-8/128-EVAL	-	CB-STX-RLINK ST-LINK	CB-STICE-S001	Flex CB-CF/FP60 CB-CF/FP120 Adapter CB-AD/QP32B-A03 CB-AD/QP48B-A03 CB-AD/QP64C-B02 CB-AD/QP80F-B01	Socket CB-AS/QP32BC CB-AS/QP48BA CB-AS/QP64CA CB-AS/QP80FB In-circuit debug/Pgm adapter CB-AD-ICD/ICP	STVD STVP IAR EWSTM8 Raisonance RIDE Cosmic C compiler IAR C compiler Raisonance C compiler	ST-LINK CB-STX-RLINK Flasher Segger FlashRunner SMH Technologies	
STM8L101	STM8L101-EVAL	-	ST-LINK STX-RLINK	STICE-SYS005	Flex CF/FP60 Adapter AD/QFN20J-Z01 AD/QFN28H-Z01 AD/QFN32A-Z01 AD/QFP32B-A04 AD/TSSO20A-A01	Socket AS/QFN20JA AS/QFN28HA AS/QFN32AA AS/QFP32BC AS/TSSO20AB In-circuit debug/Pgm adapter AD-ICD/ICP	STVD STVP IAR EWSTM8 Raisonance RIDE Cosmic C compiler IAR C compiler Raisonance C compiler	ST-LINK STX-RLINK Flasher Segger FlashRunner SMH Technologies	
STM8L15x	STM8L1526-EVAL	STM8L-DISCOVERY STM8L1526PRIMER	ST-LINK STX-RLINK	STICE-SYS007	Flex CF/FP60 Adapter AD/QFN28H-Z02 AD/QFN32A-Z01 AD/QFN48B-Z02 AD/QFP32B-A04 AD/QFP48B-A04	Socket AS/QFN28HA AS/QFN32AA AS/QFN48BA AS/QFP32BC AS/QFP48BA In-circuit debug/Pgm adapter AD-ICD/ICP	STVD STVP IAR EWSTM8 Raisonance RIDE Cosmic C compiler IAR C compiler Raisonance C compiler	ST-LINK STX-RLINK Flasher Segger FlashRunner SMH Technologies	

Notes

ST7 family

Evaluation

Evaluation boards

Evaluation boards for learning and testing microcontroller features include: ST7DALI-EVAL for lighting applications, ST7MDTULS/EVAL, ST7265X-EVAL/MS and ST7265X-DVT/MS for USB devices

Starter kits

Raisonance REva starter kits
Complete, cost-effective development kits that include RIDE development environment, RLink (USB) in-circuit debugger/programmer, evaluation motherboard (ADC, SPI, CAN, I²C, I/Os, etc.) and daughter boards featuring supported MCUs:

- ST7FLITEU0, ST7FLITE0, ST7FLITE1B and ST7FLITE3 daughter boards for ST7FLITE-SK/RAIS
- ST7263B daughter board for ST72F63B-SK/RAIS

ST7FMC motor control starter kit
Motor control development kit for ST7MC that includes firmware, GUI, a 12 VDC 240 VAC 1000 W inverter board, isolation board, STXF-INDART/USB debugger/programmer and 24 V BLDC motor. Optional accessories include ST7MC-MOT/IND - 240 V/800 W Selni three-phase induction motor (Order code: ST7MC-KIT/BLDC). Available from ST/distributor or www.smh-tech.com

Development

Hardware tools for all budgets and all needs

RLink low-cost, real-time in-circuit debugger/programmer of ST microcontrollers, from Raisonance

ST7-DVP3 series emulators for affordable, real-time emulation with advanced breakpoints and trace, plus in-circuit debugging/programming capability

ST7-EMU3 series emulators for full-featured, real-time emulation with advanced breakpoints, trace and profiling, plus in-circuit debugging/programming capability. Emulators include everything to connect to the user application for all supported MCUs

Free software tools

ST MCU toolset with everything to build, debug and program applications in one free download that includes assembler and linker plus:

- ST Visual Develop (STVD), easy-to-use IDE with integrated control of C toolsets from Cosmic and Raisonance. Supports a full range of debugging and programming tools
- ST Visual Programmer (STVP), full-featured programming software supporting the complete range of ST programming boards

Raisonance software toolset for ST microcontrollers, available at www.raisonance.com.

- RIDE development environment, RBuilder (application builder), C compiler. Supports DVP3 and EMU3 series emulators and RLink in-circuit debugger/programmer
- Raisonance C compiler. Available in free version that outputs code up to 16 Kbytes

- RFlasher programming software for viewing, erasing, writing and verifying device Flash memory. Offers automated mode and project manager

Cosmic C compiler with free version that outputs code up to 4 Kbytes. Available at www.cosmic-software.com

REALIZER, Actum Solutions' graphical design tool for creating applications without learning assembly or writing a single line of code. Supports ST7 and ST6. Versions include STREALIZER-II (available from ST only), and REALIZER with end-user support available at www.actum.com

Programming

In-circuit programmers

A complete range of programming solutions from single-position to automated are available from third-party vendors. For updated listings, refer to www.st.com/mcu

- **RLink** from Raisonance provides a low-cost solution for programming a complete range of ST microcontrollers from 8 to 32 bits
- **Flasher** ST7, Segger Microcontroller Systems' in-circuit programmer with standalone mode for production environment
- **FlashRunner** from SMH Technologies provides in-circuit programming for ST microcontrollers that is ready to integrate into production/test equipment

ST7-SocketBoard provide single-position programming with any tool with in-circuit programming capability (STX-RLINK, ST7-DVP3, ST7-EMU3)

ST7 development and programming tools

Part number	Evaluation		In-circuit debugger	Emulator		3rd-party emulator	Programming tool			
	Evaluation board	Starter kit with RLink		DVP series	EMU series		In-circuit programmer	Socket boards7 or EPB series	3rd-party programmer	
ST7LITEU0		ST7FLITE-SK/RAIS[3, 5]	STX-RLINK[3, 5, 8]	ST7MDT10-DVP3[4]	ST7MDT10-EMU3		STX-RLINK[3, 5]	ST7-SB10-SU0[1]	BP Microsystems www.bpmicro.com	Leap www.leap.com.tw
ST7LITE0		ST7FLITE-SK/RAIS[3, 5]	STX-RLINK[3, 5]	ST7MDT10-DVP3[4]	ST7MDT10-EMU3		STX-RLINK[3, 5]	ST7-SB10-SU0[1]	Data I/O www.data-io.com	RK-System www.rk-system.com.pl
ST7LITE1B		ST7FLITE-SK/RAIS[3, 5]	STX-RLINK[3, 5]	ST7MDT10-DVP3[4]	ST7MDT10-EMU3		STX-RLINK[3, 5]	ST7-SB10-123[1]	Dataman www.dataman.com	Segger www.segger.com
ST7DALI	ST7DALI-EVAL		STX-RLINK[3, 5]	ST7MDT10-DVP3[4]	ST7MDT10-EMU3		STX-RLINK[3, 5]	ST7-SB10-123[1]	Elnec www.elnec.com	SMH Technologies www.smh-tech.com
ST7MC	ST7MC-KIT/BLDC[6]		STX-RLINK[3, 5]		ST7MDT50-EMU3	iSystem	STX-RLINK[3, 5]		HI-LO www.hilosystems.com.tw	System General www.sg.com
ST7263B/ST7260	ST7MDTULS-EVAL	ST72F63B-SK/RAIS[3, 5]	STX-RLINK[3, 5]		ST7MDTU3-EMU3		STX-RLINK[3, 5]	ST7MDTU3-EPB[1]		
ST7265	ST7265X-EVAL/MS ST7265X-DVT/MS		STX-RLINK[3, 5]		ST7MDTU5-EMU2B		STX-RLINK[3, 5]	ST7MDTU5-EPB[1]		
ST7SCR	ST7SCR-EVAL/SCR				ST7MDTS1-EMU2B			ST7MDTS1-EPB[1]	Insem www.insem.co.kr	Xeltek www.xeltek.com

Notes

1 Add suffix /EU, /US or /UK for the power supply for your region
2 Add suffix /EU or /US for the power supply for your region
3 Available from ST or from Raisonance, www.raisonance.com
4 Includes connection kit for DIP16/SO16 only
5 USB connection to PC
6 Available accessories: ST7MC-MOT/IND (induction motor) and ST7-ICC/OPTOISOL (optoisolation board included with motor control starter kit (ST7MC-KIT/BLDC), is also available as separate product)
7 Socket boards complement any tool with ICC capabilities (InDART, RLINK, DVP3, EMU3, etc.)
8 For in-circuit debugging of ST7FLITEU0, users must also order the AD-ICD/DS8Z adapter. For ICD of ST7FLITEU0 in DFN8 package, users must order AD-ICD/DS8Z and ST7MDT10-8/DVP