

MCU	CORE	F	FLASH	RAM	EEP	VDD	IDD	TIMERS	RTC	ADC	DAC	CMP	OPAMP	ISP	SO8	SSOP20	QFP32	QFP48	QFP64	EN	DOC	STDLIB	PRICE
M48/88/168/328P	AVR8	8/16/20M	4/8/16/32K	0.5/1/1/2K	256/512/512/1K	2.7-5.5V	15mA run 3.5mA idle 0.5-5uA pdn	2x8b 1x16b	+	1x10b 76K	-	1	-	SPI UART(Arduino)	-	-	M328	-	-	-	+	+	\$1.50
LGT8F328P	AVR8+	32M	8/16/32K	1/2K	2/4/8K	1.8-5.5V		2x8b 2x16b	+	1x12b 15K	1x8b 0.5M	2	1	SWD UART(Arduino)	-	LGT8F	M328	LGT8F	-	+	+	\$1 (+pcb)	
STM8S003	STM8	16M	8K	1K	128	2.95-5.5V	4.5mA run 1.6mA wait 20uA halt	2x16b 1x8b	-	1x10b 0.4M	-	-	-	SWIM	-	8S003	8S003	-	-	+	+	\$0.30	
STM8S103	STM8	16M	8K	1K	640	2.95-5.5V	4.5mA run 1.6mA wait 20uA halt	2x16b 1x8b	-	1x10b 0.4M	-	-	-	SWIM	-	8S003	8S003	-	-	+	+	\$0.40	
STM32F030 CKS32F030?	CM0	48M	16/32/64/256K	4/8/32K	-	2.4-3.6V	22mA run 3mA sleep 4uA stop	8x16b	+	1x12b 1M	-	-	-	SWD UART	-	32F030	32F030	32F030	32F030	+	+	\$0.40	
STM32G030	CM0+	64M	32/64K	8K	-	2.0-3.6V	6mA run 1.5mA sleep 1.4uA stby	5x16b	+	1x12b 2.5M	-	-	-	SWD UART	32G030 2=VCC 3=GND	32G030	32G030	32G030	-	+	+	\$0.35	
STM32C011	CM0+	48M	16/32K	6K	-	2.0-3.6V	3mA run 1.5mA sleep 1-10uA stby	5x16b	+	1x12b 2.5M	-	-	-	SWD UART	32G030	32G030	-	-	-	+	+		
STM32C031	CM0+	48M	16/32K	12K	-	2.0-3.6V	3mA run 1.2mA sleep 1-10uA stby	5x16b	+	1x12b 2.5M	-	-	-	SWD UART	-	32G030	32G030	32G030	-	+	+		
PY32F002	CM0+	24M	20K	3K		1.7-5.5V	1.5mA run 0.6mA sleep 6uA stop	2x16b 1xLPTIM	-	1x12b 1M	-	1x40ns	-	SWD UART (?)	non-std 1=VCC, 8=GND	non-std +SSOP16	-	-	-	+	+	\$0.15	
PY32F003	CM0+	32M	16/32K	2/4K		1.7-5.5V	1.5mA run 0.6mA sleep 6uA stop	5x16b 1xLPTIM	+	1x12b 1M	-	2x30ns	-	SWD UART (?)	-	8S003	-	-	-	+	+	\$0.35	
PY32F030	CM0+	48M	8/16/32/64K	2/4/6/8K		1.7-5.5V	2.6mA run 1.1mA sleep 6uA stop	5x16b 1xLPTIM	+	1x12b 1M	-	2x30ns	-	SWD UART (?)	-	8S003	32F030	-	-	+	+	\$0.50	
HK32F030	CM0	72/96M	16/32/64/256K	10K		2.0-5.5V	22mA run 5.5mA sleep 12uA stop	7x16b	-	1x12b 1M	-	-	-	SWD UART (?)	-	32F030	32F030	+	+	-	+	\$0.70	
HK32F030M	CM0	32M	16K	2K		1.8-3.6V	2.7mA run 1.5mA sleep 30uA stop	1x32b 2x16b	-	1x12b 1M	-	-	-	SWD	8S003? 2=GND 4=VCC	8S003 +SSOP16	-	-	-	+	+	\$0.22	
HK32F0301M	CM0	48M	16K	4K		1.8-3.6V	3mA run 1.5mA sleep 30uA stop	3x16b	-	1x12b 1M	-	-	-	SWD	8S003? 2=GND 4=VCC	8S003	-	-	-	+	+		
HC32F002	CM0+	48M	18K	2K		1.7-5.5V	3mA run 0.6mA sleep 6uA stop	1x16/32b 3x16b	-	1x10b 1M	-	-	-	SWD	-	8S003 +SSOP20	-	-	-	-	?	\$0.44	
HC32F003	CM0+	32M	16K	2K		1.7-5.5V	4.6mA run 0.7mA sleep 6uA stop	3x16/32b 3x16b 1xPCA	-	1x12b 1M	-	2x200ns	-	SWD	-	8S003	-	-	-	-	?	\$0.60	
HC32F005	CM0+	32M	32K	4K		1.7-5.5V	4.6mA run 0.7mA sleep 6uA stop	3x16/32b 3x16b 1xPCA	-	1x12b 1M	-	2x200ns	-	SWD	-	8S003	-	-	-	-	?	\$0.60	
HC32L110	CM0+	32M	16/32K	2/4K		1.8-5.5V	4mA run 0.6mA sleep 4uA stop	3x32/16b 3x16b 1xPCA	+	1x12b 1M	-	2x200ns	-	SWD	-	8S003	-	-	-	-	?	\$0.45	
APM32F003	CM0+	48M	16/32K	2/4K	-	2.0-5.5V	4.7mA run 2mA wait 5uA halt	3x16b 1x8b	+	1x12b 1M	-	-	-	SWD	-	8S003	-	-	-	+	+		
APM32F030	CM0+	48M	32/64K	4/8K	-	2.0-3.6V	10mA run 2mA sleep 3uA stop	6x16b	+	1x12b 1M	-	-	-	SWD UART	-	-	32F030	32F030	32F030	+	+	\$1.00	
CKS32F030	CM0	48M	16/32/64K	4/8K	-	2.4-3.6V	22mA run 2mA sleep 10uA stop	7x16b	+	1x12b 1M	-	-	-	SWD	-	32F030	32F030	32F030	32F030	-	?	\$0.70	
CMS32F030	CM0	48M	32K	4K	-	2.1-5.5V	11mA run 2mA sleep 10uA stop	2x32b 6xEPWM	-	1x12b 0.1M	-	-	-	SWD	-	32F030	32F030	-	-	-	?		
CX32L003	CM0+	24M	32/64K	2K	-	2.5-5.5V	2.6mA run 0.3mA sleep 1uA stop	2x32/16b 3x16b 1xLPTIM	+	1x12b 1M	-	1x5us	-	SWD	-	8S003	-	-	-	+	?		
CW32F003	CM0+	48M	20K	3K	-	1.65-5.5V	5.5mA run 3mA sleep 22uA dsleep	5x16b	-	1x12b 1M	-	2x200ns	-	SWD UART?	-	8S003 +SSOP24	-	-	-	-	?		
CS32F030	CM0	48M	32/64K	4/8K	192b	2.0-5.5V	20mA run 3.4mA sleep 5.6uA dsleep	7x16b	+	1x12b 1M	-	-	-	SWD UART?	-	32F030	32F030	32F030	-	-	?		
CS32L010	CM0	24M	64K	4K	-	2.5-5.5V	2.6mA run 0.6mA sleep 1A dsleep	4x16b 1xLPTIM	+	1x12b 1M	-	1x5us	-	SWD	-	8S003	-	-	-	-	?		
FCM32F030	CM0	48M	16/32/64K	4/8K	-	1.8-5.5V	15mA run 2mA sleep 6uA stop	7x16b	+	1x12b 1M	-	-	-	SWD	-	32F030	32F030	32F030	-	-	?	\$1.30	
MM32F003	CM0	48M	16K	2K	-	2.0-5.5V	9.5mA run	1x32b 5x16b	-	1x12b 1M	-	-	-	SWD	-	8S003	-	-	-	-	?		
MM32G0001	CM0	48M	16K	2K	-	2.0-5.5V	9.5mA run	3x16b	-	1x12b 1M	-	-	-	SWD	8S003? 2=GND 4=VCC	8S003	-	-	-	-	?		
MM32G0141	CM0	72M	64K	8K	-	2.0-5.5V	16mA run 4mA sleep 5uA stop	1x32b 5x16b	-	1x12b 1M	-	1x10ns	-	SWD	-	LGT8F?	LGT8F?	-	-	-	?		
MM32L0020	CM0+	48M	32K	2K	-	1.8-5.5V	6.8mA run 2mA sleep 1.6uA stop	3x16b 1xLPTIM	-	1x12b 1M	-	1x30ns	2	SWD	-	8S003	-	-	-	-	?		
XM1008 XM1009	CM0	48M	18/32K	4/8K	-	2.0-5.5V	17mA run 3mA sleep 1.2uA stby	1x32b 7x16b	+	1x12b 1M	-	-	-	SWD UART?	-	32F030	32F030	32F030	-	-	?		
APT32F003	CSKY32	20/24M	32K	2K	0-4K	2.4-5.5V	10mA run 1mA sleep 10uA dsleep	1x16/32b 1x16b	-	1x12b 0.5M	-	-	-	SWD	-	8S003	-	-	-	?	?		
APT32F172	CSKY32	20/24/40M	60K	6K	4K+	2.4-5.5V	10mA run 1mA sleep 10uA dsleep	1x32b 4x16b		1x12b 0.5M	-	5x40ns	2	SWD	-	SSOP24/28	non-std	-	-	?	?		
CH32F203	CM3	144M	32/64/128/256K	10/20/32/64K		2.4-3.6V	15mA run 3.3mA sleep 10uA stby	4x16b	+	2x12b 1M	2	4	4	SWD UART	-	-	+	+	-	+	+	\$0.75	
CH32V003	RISCV	48M	16K	2K		2.7-5.5V	7mA run 2.5mA sleep 11uA stby	2x16b	-	1x10b 1.7M	-	1	1	SDI	8S003? 2=GND 4=VCC	8S003	-	-	-	+	+	\$0.30	
CH32V103	RISCV	80M	32/64K	10/20K		2.7-5.5V	7mA run 2.5mA sleep 11uA stby	4x16b	+	1x12b 1M	-	-	-	RVSWD	-	-	-	non-std	non-std	+	+		
CH32V203	RISCV	144M	32/64K	10/20K		2.4-3.6V	12mA run 3mA sleep 10uA stby	1x32b 4x16b	+	1x12b 1M	-	2	2	SDI	-	32F030 (F6P6) Non-std (F8P6)	+	non-std	non-std	+	+	\$0.75	
GD32F130	CM3	48M	16/32/64K	4/8K		2.6-3.6V	18.5mA run 5mA sleep 7uA stby	1x32b 5x16b	+	1x12b 1M	-	-	-	SWD UART	-	32F030	+	+	+	+	+	\$0.75	
GD32F330	CM4	84M	16/32/64K	4/8K		2.6-3.6V	17mA run 5mA sleep 7uA stby	1x32b 5x16b	+	1x12b 1M	-	-	-	SWD UART	-	32F030	+	+	+	+	+	\$1.00	
GD32E230	CM23	72M	16/32/64K	4/6/8K		1.8-3.6V	8.5mA run 3.7mA sleep 6uA stby	6x16b	+	1x12b 2M 6b 3.5M	-	1x33ns	-	SWD UART (buggy)	-	32F030	+	+	-	+	+	\$0.75	
AT32F421	CM4	120M	16/32/64K	8/16K		2.4-3.6V	17mA run 5mA sleep 6uA stby	6x16b	+	1x12b 2M	-	1x40ns	-	SWD UART	-	32F030	+	+	-	+	+	\$0.60	
AT32F4212	CM4	120M	16/32/64K	8/16K		2.4-3.6V	17.7mA run 6mA sleep 6uA stby	7x16b	+	1x12b 2M	-	1x40ns	2	SWD UART	-	32F030	+	+	-	+	+		
N32G030/031/032	CM0	48M	32/64K	8K		1.8-5.5V	8.5mA run 3.7mA sleep 6uA stby	4x16b 1xLPTIM	+	1x12b 1M	-	1/1/3x100ns	1	SWD UART (non-std)	-	32F030	+	+	-	+	+	\$0.50	
N32G430	CM4F	128M	32/64K	16K		2.4-3.6V	15.5mA run 7.5mA sleep 6uA stby	7x16b 1xLPTIM	+	1x12b 4.7M 6b 8.8M	-	3x55ns	-	SWD UART (non-std)	-	32F030	+	+	-	+	+	\$0.80	