MCU-Typical Designations and Part Number Suffixes

AP	M	32	F	103	T	4	T	6

Brand
Apexmic

MCU

Family
32-bit MCUs

Product type

A	Auto grade
E	Enhanced
F	Foundation
L	Ultra-low-power
S	Standard
T	Touch sensing
W	Wireless

Specific features (3 digits)

030	Entry-level
103	Foundation
407	High-performance and DSP with FPU
L072	Ultra-low-power

A	169
I	176&201
B	208
N	216
X	256

Auto grade

8	48
9	64
A	80

Pin count (pins)

D	14
Y	20
F	20
E	24&25
G	28
K	32
T	36
H	40
S	44
C	48&49
U	63
R	64&66
J	72
M	80
O	90
V	100
Q	132
Z	144

Code size (Kbytes)

0	1
1	2
2	4
3	8
4	16&18
5	24
6	32
7	48
8	64
9	72
A	96 or 128*
B	128
Z	192
C	256
D	384
E	512
F	768
G	1024

Packaging

B	Plastic DIP*
D	Ceramic DIP*
G	Ceramic QFP
H	LFBGA/TFBGA
I	UFBGA Pitch 0.5**
J	UFBGA Pitch 0.8**
k	UFBGA Pitch 0.65**
M	Plastic S0
P	TSSOP
Q	Plastic QFP
T	QFP
U	UFQFPN
V	VFQFPN
Y	WLCSP

Temperature range

6 and A	-40 to +85°C
7 and B	-40 to +105°C
3 and C	-40 to +125°C
D	-40 to +150°C

Ninestar | APEXMIC 纳思达股份有限公司 NINESTAR CORPORATION

T:+86 756 3333768 F:+86 756 3333029 E: info@apexmic.cn www.apexmic.cn

纳思达微信公众号
Ninestar Wechat

APM32E103/F103 series -ARM®Cortex®-M3 General Purpose MCUS

Part number	Package	Frequency (MHz)	FLASH (kB)	RAM (kB)	Timers (16-bit)	Vmin	Vmax	SysTick	Watchdog	RTC	ADC (12-bit)	I/Os	I²C	SPI	CAN	USB device	USART	FPU	QSPI	High speed I²C
APM32E103CBT7	LQFP48	96	128	20	4	2	3.6	1	2	1	10	37	2	2	1	1	3	1	1	2
APM32E103RBT7	LQFP64	96	128	20	4	2	3.6	1	2	1	16	51	2	2	1	1	3	1	1	2
APM32E103VBT7	LQFP100	96	128	20	4	2	3.6	1	2	1	16	80	2	2	1	1	3	1	1	2
APM32F103C4T6	LQFP48	72	16	6	4	2	3.6	1	2	1	10	37	2	2	1	1	3	-	-	-
APM32F103C6T6	LQFP48	72	32	10	4	2	3.6	1	2	1	10	37	2	2	1	1	3	-	-	-
APM32F103C8T6	LQFP48	72	64	20	4	2	3.6	1	2	1	10	37	2	2	1	1	3	-	-	-
APM32F103CBT6	LQFP48	72	128	20	4	2	3.6	1	2	1	10	37	2	2	1	1	3	-	-	-
APM32F103R4T6	LQFP64	72	16	4	4	2	3.6	1	2	1	16	51	2	2	1	1	3	-	-	-
APM32F103R6T6	LQFP64	72	32	10	4	2	3.6	1	2	1	16	51	2	2	1	1	3	-	-	-
APM32F103R8T6	LQFP64	72	64	20	4	2	3.6	1	2	1	16	51	2	2	1	1	3	-	-	-
APM32F103RBT6	LQFP64	72	128	20	4	2	3.6	1	2	1	16	51	2	2	1	1	3	-	-	-
APM32F103T4U6	VFQFPN36	72	16	6	4	2	3.6	1	2	1	10	26	1	1	1	1	2	-	-	-
APM32F103T6U6	VFQFPN36	72	32	10	4	2	3.6	1	2	1	10	26	1	1	1	1	2	-	-	-
APM32F103T8U6	VFQFPN36	72	64	20	4	2	3.6	1	2	1	10	26	1	1	1	1	2	-	-	-
APM32F103TBU6	VFQFPN36	72	128	20	4	2	3.6	1	2	1	10	26	1	1	1	1	2	-	-	-
APM32F103V8T6	LQFP100	72	64	20	4	2	3.6	1	2	1	16	80	2	2	1	1	3	-	-	-
APM32F103VBT6	LQFP100	72	128	20	4	2	3.6	1	2	1	16	80	2	2	1	1	3	-	-	-
APM32F102C4T6	LQFP48	48	16	4	3	2	3.6	1	2	1	10	37	2	2	-	1	3	-	-	-
APM32F102C6T6	LQFP48	48	32	6	3	2	3.6	1	2	1	10	37	2	2	-	1	3	-	-	-
APM32F102C8T6	LQFP48	48	64	10	3	2	3.6	1	2	1	10	37	2	2	-	1	3	-	-	-
APM32F102CBT6	LQFP48	48	128	16	3	2	3.6	1	2	1	10	37	2	2	-	1	3	-	-	-
APM32F102R4T6	LQFP64	48	16	4	3	2	3.6	1	2	1	16	51	2	2	-	1	3	-	-	-
APM32F102R6T6	LQFP64	48	32	6	3	2	3.6	1	2	1	16	51	2	2	-	1	3	-	-	-
APM32F102R8T6	LQFP64	48	64	10	3	2	3.6	1	2	1	16	51	2	2	-	1	3	-	-	-
APM32F102RBT6	LQFP64	48	128	16	3	2	3.6	1	2	1	16	51	2	2	-	1	3	-	-	-
APM32F101C4T6	LQFP48	36	16	4	3	2	3.6	1	2	1	10	37	2	2	-	-	3	-	-	-
APM32F101C6T6	LQFP48	36	32	6	3	2	3.6	1	2	1	10	37	2	2	-	-	3	-	-	-
APM32F101C8T6	LQFP48	36	64	10	3	2	3.6	1	2	1	10	37	2	2	-	-	3	-	-	-
APM32F101CBT6	LQFP48	36	128	16	3	2	3.6	1	2	1	10	37	2	2	-	-	3	-	-	-
APM32F101R4T6	LQFP64	36	16	4	3	2	3.6	1	2	1	16	51	2	2	-	-	3	-	-	-
APM32F101R6T6	LQFP64	36	32	6	3	2	3.6	1	2	1	16	51	2	2	-	-	3	-	-	-
APM32F101R8T6	LQFP64	36	64	10	3	2	3.6	1	2	1	16	51	2	2	-	-	3	-	-	-
APM32F101RBT6	LQFP64	36	128	16	3	2	3.6	1	2	1	16	51	2	2	-	-	3	-	-	-
APM32F101T4U6	VFQFPN36	36	16	4	3	2	3.6	1	2	1	10	26	1	1	-	-	2	-	-	-
APM32F101T6U6	VFQFPN36	36	32	6	3	2	3.6	1	2	1	10	26	1	1	-	-	2	-	-	-
APM32F101T8U6	VFQFPN36	36	64	10	3	2	3.6	1	2	1	10	26	1	1	-	-	2	-	-	-
APM32F101TBU6	VFQFPN36	36	128	16	3	2	3.6	1	2	1	10	26	1	1	-	-	2	-	-	-
APM32F101V8T6	LQFP100	36	64	10	3	2	3.6	1	2	1	16	80	2	2	-	-	3	-	-	-
APM32F101VBT6	LQFP100	36	128	16	3	2	3.6	1	2	1	16	80	2	2	-	-	3	-	-	-