

PROPERTY	AT32F403ACGT7 48-pin QFN BluePill compatible	STM32F103C8T6 48-pin QFN (Blue Pill)	ARDUINO NANO ATmega328
Clock Frequency (MHz)	240	72	16
Flash Memory (KB)	1024	64	32
SRAM (KB)	224	20	2
On Board RTC	Yes	Yes	No
Architecture	ARM Cortex M4 32bit	ARM Cortex M3 32bit	AVRRISC8bit
No.of I/O's	37	32	24
No.of I2C Buses	up to 3	2	1
No.of SPI Buses	up to 4 (50Mbit/s)	2	1
CAN BUS	Yes	Yes	No
No. of PWM times	2 motor control PWM advanced timers	1	1
PWM resolution	16bit	16bit	10 bit
No. of USART Buses	4	3	1
# ADCs	3	2	1
Max Sampling Rate (KSa/s)	2000	1000	77
No. of analog Channels	12	10	8
ADC Resolution	12 bit	12 bit	10 bit
Quantisation Levels	4096	4096	1024
# DACs	2 (12bit)	0	0
Debugging	Serial, JTAG	Serial, JTAG	Serial
USB Port	USB 2.0 Full Speed, clock independant	USB 2.0 Full Speed, clock dependant	NA
Price USD (2021)	2.21	1.91	1.47