

Microcontroller Side-By-Side Comparison

	PIC18F46J50 Microchip delete	PIC18F4550 Microchip delete
P.Memory (Kbytes)	64 Flash	32 Flash
P.Memory (Kwords)	32	16
Self-Write Flash	Yes	Yes
RAM (Bytes)	3.7109375K	2K
EEPROM (Bytes)	0	256
I/O Pins	34	35
Max CPU Speed	48 MHz (12 MIPS)	48 MHz (12 MIPS)
Internal OSC	8 MHz, 32 kHz	8 MHz, 32 kHz
CodeGuard Security		
System Mgmt Features	BOR, LVD, POR, RTCC, nanoWatt-[Low Speed, Fast Wake, XLP, Pwr Modes]	PBOR, PLVD, POR, WDT, nanoWatt-[Low Speed, Fast Wake, Pwr Modes]
Analog Peripherals	2-Comparatorsw/SRLatch, OpAmp, ShuntReg; 1A/D, 13x10-bit @ 100ksps; CTMU	2-Comparatorsw/SRLatch, OpAmp, ShuntReg; 1A/D, 13x10-bit @ 100ksps
Digital Comm. Peripherals	2-A/E/USART, 2-MSSP(SPI/I2C), PPS	1-A/E/USART, 1-MSSP(SPI/I2C)
Connectivity	1-Full Speed-USB 2.0	1-Full Speed-USB 2.0, LIN
Capture/Compare PWM Peripherals	2-ECCP, 10-bitPWM	1-CCP, 1-ECCP, 10-bitPWM
Digital Timers	2x8-bit, 3x16-bit	1x8-bit, 3x16-bit
Application Peripherals	PMP, EBI-Program/Data	No, EBI-No
Debug/Develop. Features	ICSP, ICDdebug - Yes	ICSP, ICDdebug - Yes
Package (Pins)	PDIP, QFN, TQFP (44)	LQFP, PDIP, QFN, TQFP (40)
Operating Voltage	(2V-3.6V)	(2V-5.5V)
Temperature Ranges	(-40 to 85)	(-40 to 85)
Other Features	This low power and high performance 8-bit MCU with integrated full-speed USB 2.0 and peripheral flexibility comes in a small package for cost sensitive applications in	Ideal for low power (nanoWatt) and connectivity applications that benefit from the availability of three serial ports: FS-USB(12Mbit/s), I²C[™] and