

Part Number	MIPS (peak)	Flash Memory (bytes)	RAM (bytes)	Ext Mem I/F	Digital Port I/O Pins	Serial Buses	Timers (16-bit)	PCA Chnls	Internal Osc	ADC1	ADC2	DAC	Temp Sensor	VREF	Comparators	Other	Package	Eval Kit
C8051F000	20	32KB	256	-	32	UART, SMBus, SPI	4	5	±20%	12-bit, 8ch., 100ksps	-	12-bit, 2ch.	Y	Y	2	-	TQFP64	C8051F005DK-U
C8051F001	20	32KB	256	-	16	UART, SMBus, SPI	4	5	±20%	12-bit, 8ch., 100ksps	-	12-bit, 2ch.	Y	Y	2	-	TQFP48	C8051F005DK-U
C8051F002	20	32KB	256	-	8	UART, SMBus, SPI	4	5	±20%	12-bit, 4ch., 100ksps	-	12-bit, 2ch.	Y	Y	1	-	LQFP32	C8051F005DK-U
C8051F005	25	32KB	2304	-	32	UART, SMBus, SPI	4	5	±20%	12-bit, 8ch., 100ksps	-	12-bit, 2ch.	Y	Y	2	-	TQFP64	C8051F005DK-U
C8051F006	25	32KB	2304	-	16	UART, SMBus, SPI	4	5	±20%	12-bit, 8ch., 100ksps	-	12-bit, 2ch.	Y	Y	2	-	TQFP48	C8051F005DK-U
C8051F007	25	32KB	2304	-	8	UART, SMBus, SPI	4	5	±20%	12-bit, 4ch., 100ksps	-	12-bit, 2ch.	Y	Y	1	-	LQFP32	C8051F005DK-U
C8051F010	20	32KB	256	-	32	UART, SMBus, SPI	4	5	±20%	10-bit, 8ch., 100ksps	-	12-bit, 2ch.	Y	Y	2	-	TQFP64	C8051F005DK-U
C8051F011	20	32KB	256	-	16	UART, SMBus, SPI	4	5	±20%	10-bit, 8ch., 100ksps	-	12-bit, 2ch.	Y	Y	2	-	TQFP48	C8051F005DK-U
C8051F012	20	32KB	256	-	8	UART, SMBus, SPI	4	5	±20%	10-bit, 4ch., 100ksps	-	12-bit, 2ch.	Y	Y	1	-	LQFP32	C8051F005DK-U
C8051F015	25	32KB	2304	-	32	UART, SMBus, SPI	4	5	±20%	10-bit, 8ch., 100ksps	-	12-bit, 2ch.	Y	Y	2	-	TQFP64	C8051F005DK-U
C8051F016	25	32KB	2304	-	16	UART, SMBus, SPI	4	5	±20%	10-bit, 8ch., 100ksps	-	12-bit, 2ch.	Y	Y	2	-	TQFP48	C8051F005DK-U
C8051F017	25	32KB	2304	-	8	UART, SMBus, SPI	4	5	±20%	10-bit, 4ch., 100ksps	-	12-bit, 2ch.	Y	Y	1	-	LQFP32	C8051F005DK-U
C8051F018	25	16KB	1280	-	32	UART, SMBus, SPI	4	5	±20%	10-bit, 8ch., 100ksps	-	-	Y	Y	2	-	TQFP64	C8051F005DK-U
C8051F019	25	16KB	1280	-	16	UART, SMBus, SPI	4	5	±20%	10-bit, 8ch., 100ksps	-	-	Y	Y	2	-	TQFP48	C8051F005DK-U
C8051F020	25	64KB	4352	Y	64	2 UARTs, SMBus, SPI	5	5	±20%	12-bit, 8ch., 100ksps	8-bit, 8ch., 500ksps	12-bit, 2ch.	Y	Y	2	-	TQFP100	C8051F020DK-U
C8051F021	25	64KB	4352	Y	32	2 UARTs, SMBus, SPI	5	5	±20%	12-bit, 8ch., 100ksps	8-bit, 8ch., 500ksps	12-bit, 2ch.	Y	Y	2	-	TQFP64	C8051F020DK-U
C8051F022	25	64KB	4352	Y	64	2 UARTs, SMBus, SPI	5	5	±20%	10-bit, 8ch., 100ksps	8-bit, 8ch., 500ksps	12-bit, 2ch.	Y	Y	2	-	TQFP100	C8051F020DK-U

C8051F023	25	64KB	4352	Y	32	2 UARTs, SMBus, SPI	5	5	±20%	10-bit, 8ch., 100ksps	8-bit, 8ch., 500ksps	12-bit, 2ch.	Y	Y	2	-	TQFP64	C8051F020DK-U
C8051F040	25	64KB	4352	Y	64	CAN2.0B, 2 UARTs, SMBus, SPI	5	6	±2%	12-bit, 13ch., 100ksps	8-bit, 8ch., 500ksps	12-bit, 2ch.	Y	Y	3	±60V PGA	TQFP100	C8051F040DK-U
C8051F041	25	64KB	4352	Y	32	CAN2.0B, 2 UARTs, SMBus, SPI	5	6	±2%	12-bit, 13ch., 100ksps	8-bit, 8ch., 500ksps	12-bit, 2ch.	Y	Y	3	±60V PGA	TQFP64	C8051F040DK-U
C8051F042	25	64KB	4352	Y	64	CAN2.0B, 2 UARTs, SMBus, SPI	5	6	±2%	10-bit, 13ch., 100ksps	8-bit, 8ch., 500ksps	12-bit, 2ch.	Y	Y	3	±60V PGA	TQFP100	C8051F040DK-U
C8051F043	25	64KB	4352	Y	32	CAN2.0B, 2 UARTs, SMBus, SPI	5	6	±2%	10-bit, 13ch., 100ksps	8-bit, 8ch., 500ksps	12-bit, 2ch.	Y	Y	3	±60V PGA	TQFP64	C8051F040DK-U
C8051F044	25	64KB	4352	Y	64	CAN2.0B, 2 UARTs, SMBus, SPI	5	6	±2%	10-bit, 13ch., 100ksps	-	-	Y	Y	3	±60V PGA	TQFP100	C8051F040DK-U
C8051F045	25	64KB	4352	Y	32	CAN2.0B, 2 UARTs, SMBus, SPI	5	6	±2%	10-bit, 13ch., 100ksps	-	-	Y	Y	3	±60V PGA	TQFP64	C8051F040DK-U
C8051F046	25	32KB	4352	Y	64	CAN2.0B, 2 UARTs, SMBus, SPI	5	6	±2%	10-bit, 13ch., 100ksps	-	-	Y	Y	3	±60V PGA	TQFP100	C8051F040DK-U
C8051F047	25	32KB	4352	Y	32	CAN2.0B, 2 UARTs, SMBus, SPI	5	6	±2%	10-bit, 13ch., 100ksps	-	-	Y	Y	3	±60V PGA	TQFP64	C8051F040DK-U
C8051F060	25	64KB	4352	Y	59	CAN2.0B, 2 UARTs, SMBus, SPI	5	6	±2%	16-bit, 2ch., 1Msps	10-bit, 8ch., 200ksps	12-bit, 2ch.	Y	Y	3	DMA	TQFP100	C8051F060DK-U
C8051F061	25	64KB	4352	-	24	CAN2.0B, 2 UARTs, SMBus, SPI	5	6	±2%	16-bit, 2ch., 1Msps	10-bit, 8ch., 200ksps	12-bit, 2ch.	Y	Y	3	DMA	TQFP64	C8051F060DK-U
C8051F062	25	64KB	4352	Y	59	CAN2.0B, 2 UARTs, SMBus, SPI	5	6	±2%	16-bit, 2ch., 1Msps	10-bit, 8ch., 200ksps	12-bit, 2ch.	Y	Y	3	DMA	TQFP100	C8051F060DK-U
C8051F063	25	64KB	4352	-	24	CAN2.0B, 2 UARTs, SMBus, SPI	5	6	±2%	16-bit, 2ch., 1Msps	10-bit, 8ch., 200ksps	12-bit, 2ch.	Y	Y	3	DMA	TQFP64	C8051F060DK-U
C8051F064	25	64KB	4352	Y	59	2 UARTs, SMBus, SPI	5	6	±2%	16-bit, 2ch., 1Msps	-	-	-	Y	3	DMA	TQFP100	C8051F060DK-U
C8051F065	25	64KB	4352	-	24	2 UARTs, SMBus, SPI	5	6	±2%	16-bit, 2ch., 1Msps	-	-	-	Y	3	DMA	TQFP64	C8051F060DK-U
C8051F066	25	32KB	4352	Y	59	2 UARTs, SMBus, SPI	5	6	±2%	16-bit, 2ch., 1Msps	-	-	-	Y	3	DMA	TQFP100	C8051F060DK-U
C8051F067	25	32KB	4352	-	24	2 UARTs, SMBus, SPI	5	6	±2%	16-bit, 2ch., 1Msps	-	-	-	Y	3	DMA	TQFP64	C8051F060DK-U

C8051F120	100	128KB	8448	Y	64	2 UARTs, SMBus, SPI	5	6	±2%	12-bit, 8ch., 100ksps	8-bit, 8ch., 500ksps	12-bit, 2ch.	Y	Y	2	16x1 6 MAC	TQFP100	C8051F120DK-U
C8051F121	100	128KB	8448	Y	32	2 UARTs, SMBus, SPI	5	6	±2%	12-bit, 8ch., 100ksps	8-bit, 8ch., 500ksps	12-bit, 2ch.	Y	Y	2	16x1 6 MAC	TQFP64	C8051F120DK-U
C8051F122	100	128KB	8448	Y	64	2 UARTs, SMBus, SPI	5	6	±2%	10-bit, 8ch., 100ksps	8-bit, 8ch., 500ksps	12-bit, 2ch.	Y	Y	2	16x1 6 MAC	TQFP100	C8051F120DK-U
C8051F123	100	128KB	8448	Y	32	2 UARTs, SMBus, SPI	5	6	±2%	10-bit, 8ch., 100ksps	8-bit, 8ch., 500ksps	12-bit, 2ch.	Y	Y	2	16x1 6 MAC	TQFP64	C8051F120DK-U
C8051F124	50	128KB	8448	Y	64	2 UARTs, SMBus, SPI	5	6	±2%	12-bit, 8ch., 100ksps	8-bit, 8ch., 500ksps	12-bit, 2ch.	Y	Y	2	-	TQFP100	C8051F120DK-U
C8051F125	50	128KB	8448	Y	32	2 UARTs, SMBus, SPI	5	6	±2%	12-bit, 8ch., 100ksps	8-bit, 8ch., 500ksps	12-bit, 2ch.	Y	Y	2	-	TQFP64	C8051F120DK-U
C8051F126	50	128KB	8448	Y	64	2 UARTs, SMBus, SPI	5	6	±2%	10-bit, 8ch., 100ksps	8-bit, 8ch., 500ksps	12-bit, 2ch.	Y	Y	2	-	TQFP100	C8051F120DK-U
C8051F127	50	128KB	8448	Y	32	2 UARTs, SMBus, SPI	5	6	±2%	10-bit, 8ch., 100ksps	8-bit, 8ch., 500ksps	12-bit, 2ch.	Y	Y	2	-	TQFP64	C8051F120DK-U
C8051F130	100	128KB	8448	Y	64	2 UARTs, SMBus, SPI	5	6	±2%	10-bit, 8ch., 100ksps	-	-	Y	Y	2	16x1 6 MAC	TQFP100	C8051F120DK-U
C8051F131	100	128KB	8448	Y	32	2 UARTs, SMBus, SPI	5	6	±2%	10-bit, 8ch., 100ksps	-	-	Y	Y	2	16x1 6 MAC	TQFP64	C8051F120DK-U
C8051F132	100	64KB	8448	Y	64	2 UARTs, SMBus, SPI	5	6	±2%	10-bit, 8ch., 100ksps	-	-	Y	Y	2	16x1 6 MAC	TQFP100	C8051F120DK-U
C8051F133	100	64KB	8448	Y	32	2 UARTs, SMBus, SPI	5	6	±2%	10-bit, 8ch., 100ksps	-	-	Y	Y	2	16x1 6 MAC	TQFP64	C8051F120DK-U
C8051F206	25	8KB	1280	-	32	UART, SPI	3	-	±20%	12-bit, 32ch., 100ksps	-	-	-	-	2	-	TQFP48	C8051F206DK-U
C8051F220	25	8KB	256	-	32	UART, SPI	3	-	±20%	8-bit, 32ch., 100ksps	-	-	-	-	2	-	TQFP48	C8051F226DK-U
C8051F221	25	8KB	256	-	22	UART, SPI	3	-	±20%	8-bit, 32ch., 100ksps	-	-	-	-	2	-	LQFP32	C8051F226DK-U

C8051F226	25	8KB	1280	-	32	UART, SPI	3	-	±20%	8-bit, 32ch., 100ksps	-	-	-	-	2	-	TQFP48	C8051F226DK-U
C8051F230	25	8KB	256	-	32	UART, SPI	3	-	±20%	-	-	-	-	-	2	-	TQFP48	C8051F226DK-U
C8051F231	25	8KB	256	-	22	UART, SPI	3	-	±20%	-	-	-	-	-	2	-	LQFP32	C8051F226DK-U
C8051F236	25	8KB	1280	-	32	UART, SPI	3	-	±20%	-	-	-	-	-	2	-	TQFP48	C8051F226DK-U
C8051F300	25	8KB	256	-	8	UART, SMBus	3	3	±2%	8-bit, 6ch., 500ksps	-	-	Y	-	1	-	MLP11	C8051F300DK-U
C8051F301	25	8KB	256	-	8	UART, SMBus	3	3	±2%	-	-	-	-	-	1	-	MLP11	C8051F300DK-U
C8051F302	25	8KB	256	-	8	UART, SMBus	3	3	±20%	8-bit, 6ch., 500ksps	-	-	Y	-	1	-	MLP11	C8051F300DK-U
C8051F303	25	8KB	256	-	8	UART, SMBus	3	3	±20%	-	-	-	-	-	1	-	MLP11	C8051F300DK-U
C8051F304	25	4KB	256	-	8	UART, SMBus	3	3	±20%	-	-	-	-	-	1	-	MLP11	C8051F300DK-U
C8051F305	25	2KB	256	-	8	UART, SMBus	3	3	±20%	-	-	-	-	-	1	-	MLP11	C8051F300DK-U
C8051F310	25	16KB	1280	-	29	UART, SMBus, SPI	4	5	±2%	10-bit, 21ch., 200ksps	-	-	Y	-	2	-	LQFP32	C8051F310DK-U
C8051F311	25	16KB	1280	-	25	UART, SMBus, SPI	4	5	±2%	10-bit, 17ch., 200ksps	-	-	Y	-	2	-	MLP28	C8051F310DK-U
C8051F312	25	8KB	1280	-	29	UART, SMBus, SPI	4	5	±2%	10-bit, 21ch., 200ksps	-	-	Y	-	2	-	LQFP32	C8051F310DK-U
C8051F313	25	8KB	1280	-	25	UART, SMBus, SPI	4	5	±2%	10-bit, 17ch., 200ksps	-	-	Y	-	2	-	MLP28	C8051F310DK-U
C8051F314	25	8KB	1280	-	29	UART, SMBus, SPI	4	5	±2%	-	-	-	Y	-	2	-	LQFP32	C8051F310DK-U
C8051F315	25	8KB	1280	-	25	UART, SMBus, SPI	4	5	±2%	-	-	-	Y	-	2	-	MLP28	C8051F310DK-U
C8051F320	25	16KB	2304	-	25	USB 2.0, UART, SMBus, SPI	4	5	±1.5%	10-bit, 17ch., 200ksps	-	-	Y	Y	2	-	LQFP32	C8051F320DK-U
C8051F321	25	16KB	2304	-	21	USB 2.0, UART, SMBus, SPI	4	5	±1.5%	10-bit, 13ch., 200ksps	-	-	Y	Y	2	-	MLP28	C8051F320DK-U
C8051F330	25	8KB	768	-	17	UART, SMBus, SPI	4	3	±2%	10-bit, 16ch., 200ksps	-	10-bit, 1ch.	Y	Y	1	-	MLP20	C8051F330DK-U
C8051F330D	25	8KB	768	-	17	UART, SMBus, SPI	4	3	±2%	10-bit, 16ch., 200ksps	-	10-bit, 1ch.	Y	Y	1	-	PDIP20	C8051F330DK-U
C8051F331	25	8KB	768	-	17	UART, SMBus, SPI	4	3	±2%	-	-	-	-	-	1	-	MLP20	C8051F330DK-U
C8051F350	50	8KB	768	-	17	UART, SMBus, SPI	4	3	±2%	24-bit, 8ch., 1ksps	-	8-bit, 2ch.	Y	-	1	-	LQFP32	C8051F350DK-U
C8051F351	50	8KB	768	-	17	UART, SMBus, SPI	4	3	±2%	24-bit, 8ch., 1ksps	-	8-bit, 2ch.	Y	-	1	-	MLP28	C8051F350DK-U

C8051F352	50	8KB	768	-	17	UART, SMBus, SPI	4	3	±2%	16-bit, 8ch., 1ksps	-	8-bit, 2ch.	Y	-	1	-	LQFP32	C8051F350DK-U
C8051F353	50	8KB	768	-	17	UART, SMBus, SPI	4	3	±2%	16-bit, 8ch., 1ksps	-	8-bit, 2ch.	Y	-	1	-	MLP28	C8051F350DK-U
CP2101	-	512	1KB	-	13	UART to USB Bridge	-	-	Y	-	-	-	-	-	-	Volt R	MLP28	CP2101EK-N
CP2102	-	1024	1KB	-	13	UART to USB Bridge	-	-	Y	-	-	-	-	-	-	Volt R	MLP28	CP2102EK-N