

FLASH MCU FEATURE SUMMARY

FEATURES	AT89C1051	AT89C2051	AT89C51	AT89LV51	AT89C52	AT89LV52	AT89C55	AT89S8252
FLASH (BYTES)	1K	2K	4K	4K	8K	8K	20K	8K
RAM (BYTES)	64	128	128	128	256	256	256	256
ON-CHIP EEPROM	0	0	0	0	0	0	0	2K
SPI INTERFACE	NO	NO	NO	NO	NO	NO	NO	YES
IN-SYSTEM PROGRAMMING	YES	YES	YES	YES	YES	YES	YES	YES
TIMERS/COUNTERS	1	2	2 2	3	3	3	4	
SERIAL DOWN-LOADING	NO	NO	NO	NO	NO	NO	NO	YES
DATA POINTER	1	1	1	1	1	1	1	2
SECURITY LOCK BITS	2	2	3	3	3	3	3	3
WATCHDOG TIMER	-	-	-	-	-	-	-	YES
SERIAL UART	-	YES	YES	YES	YES	YES	YES	YES

	AT89C1051	AT89C2051	AT89C51	AT89LV51	AT89C52	AT89LV52	AT89C55	AT89S8252
INTERRUPT RECOVERY FROM POWER DOWN	-	-	-	-	-	-	-	YES
ANALOGUE COMPARATOR	YES	YES	-	-	-	-	-	-
I / O PINS	15	15	32	32	32	32	32	32
INTERRUPT SOURCES	3	6	6	6	8	8	8	9
EXTERNAL ADDRESS /DATA BUS	NO	NO	YES	YES	YES	YES	YES	YES
POWER DOWN & IDLE MODE	YES	YES	YES	YES	YES	YES	YES	YES
POWER SUPPLY	2.7-6.0	2.7-6.0	4.0-6.0	2.7-6.0	4.0-6.0	2.7-6.0	2.7-6.0	2.7-6.0
FREQUENCY	0-24	0-24	0-24	0-24	0-24	0-24	0-33	0-33
SERIAL DOWN-LOADING	NO	NO	NO	NO	NO	NO	NO	YES
PIN COUNT	20	20	40/44	40/44	40/44	40/44	40/44	40/44
I/O CURRENT SINK (mA PER PIN)	20	20	10	10	10	10	10	10
MAX TOTAL I/O CURRENT SINK (mA)	80	80	71	71	71	71	71	71