

Adapt9S12 MCU Card Selector Guide

Properties	AD9S12C32	AD9S12C128	AD9S12DG128	AD9S12DP256	AD9S12DP512	AD9S12DP512B	AD9S12DP512S	AD9S12E128	AD9S12E256	AD9S12EQ128	AD9S12NE
RAM	2K	4K	8K	12K	14K	14K	14K	8K	16K	8K	8K
EEPROM	-	-	2K	4K	8K	8K	8K	-	-	-	-
FLASH	32K	128K	128K	256K	512K	512K	512K	128K	256K	128K	64K
CRYSTAL FREQ. (MHz)	8	8	16	16	16	16	16	8	8	8	8
MAX. BUS SPEED (Mhz)	24	24	24	24	24	24	24	24	24	24	24
SCI	1	1	2	2	2	2	2	3	3	2	4
SPI	1	1	1	1	1	1	1	1	1	1	1
IIC	-	-	1	1	1	1	1	1	1	1	1
CAN SUBSYSTEMS ON CHIP	1	1	4	4	4	4	4	-	-	-	-
A/D CHANNELS	8	8	2 x 8	2 x 8	2 x 8	2 x 8	2 x 8	16	16	16	8
A/D RESOLUTION (BITS)	10	10	10	10	10	10	10	10	10	10	10
PWM CHANNELS	6 or 3	6 or 3	4 or 8	4 or 8	4 or 8	4 or 8	4 or 8	6	6	6	-
PWM RESOLUTION (BITS)	8 or 16	8 or 16	8 or 16	8 or 16	8 or 16	8 or 16	8 or 16	15	15	15	-
DAC RESOLUTION (bits)	-	-	-	-	-	-	-	8	8	8	-
DAC CHANNELS	-	-	-	-	-	-	-	2	2	2	-
IrDA	-	-	-	-	-	-	-	yes	yes	yes	-
KEY WAKEUP PINS	8	8	18	18	18	18	18	16	16	16	10
PINS FOR DIGITAL INPUT ONLY	2 (PE0, PE1)	2 (PE0, PE1)	2 (PE0, PE1)	2 (PE0, PE1)	2 (PE0, PE1)	2 (PE0, PE1)	2 (PE0, PE1)	2 (PE0, PE1)	2 (PE0, PE1)	2 (PE0, PE1)	2 (PE0, PE1)
PINS FOR DIGITAL I/O	50	50	70	70	70	70	70	70	70	42	67
VCC (Volts)	3.3 or 5	3.3 or 5	5	5	5	5	5	3.3 or 5	3.3 or 5	3.3 or 5	3.3
RS232 PORTS	1	1	2	2	2	2	2	2	2	2	2
CAN TRANSCEIVERS	1	1	2	2	2	-	2	-	-	-	-
RS485 TRANSCEIVERS	-	-	1	1	1	-	1	1	1	1	1
USER LED PORT PIN	PT7	PT7	PP7	PP7	PP7	PP7	PP7	PP0	PP0	PP0	PT4
MEM. EXP. BUS TYPE	MUX	MUX	MUX	MUX	MUX	-	MUX	MUX	MUX	MUX	MUX
EXT. DATA BUS WIDTH (BITS)	8 or 16	8 or 16	8 or 16	8 or 16	8 or 16	-	8 or 16	8 or 16	8 or 16	8 or 16	8 or 16
NOM. DIMENSIONS (IN.)	2.8 x 1.7	2.8 x 1.7	3.25 x 2.25	3.25 x 2.25	3.25 x 2.25	3.25 x 2.25	3.25 x 2.25	3.25 x 2.25	3.25 x 2.25	3.25 x 2.25	3.25 x 2.25
NOM. DIMENSIONS (MM)	71 x 43	71 x 43	83 x 57	83 x 57	83 x 57	83 x 57	83 x 57	83 x 57	83 x 57	83 x 57	83 x 57
NOM. WEIGHT (g)	30	30	40	40	40	40	40	40	40	40	45
NOM. CURRENT (mA)	30	30	60	60	70	70	70	30	30	30	200
BOOTLOADER/MONITOR	SerMon	SerMon	SerMon	D-BUG12	D-BUG12	StickOS BASIC	SerMon	SerMon	SerMon	SerMon	SerMon
ON-CHIP FLASH UTILITY	SerMon	SerMon	SerMon	D-BUG12	D-BUG12	StickOS BASIC	SerMon	SerMon	SerMon	SerMon	SerMon
ROOT ORDER CODE *	AD9S12C32M-	AD9S12C128M-	AD9S12DG128SM2-	AD9S12DP256M2-	AD9S12DP512M2-	AD9S12DP512BM0-	AD9S12DP512SM2-	AD9S12E128M-	AD9S12E256M-	AD9S12EQ128M-	AD9S12NE64M-
UNIT PRICE (U.S.)	\$53.00	\$63.00	\$96.00	\$128.00	\$123.00	\$99.00	\$123.00	\$116.00	\$124.00	\$77.00	\$113.00
		Without RS485:	AD9S12DG128SM1-	AD9S12DP256M1-	AD9S12DP512M1-		AD9S12DP512SM1-				
			\$90.00	\$122.00	\$117.00		\$117.00				
		Without RS485, CAN:	AD9S12DG128SM0-	AD9S12DP256M0-	AD9S12DP512M0-		AD9S12DP512SM0-				
			\$80.00	\$112.00	\$107.00		\$107.00				

* append connector option code(s) for H1 and H2 to form complete order code