

## Adapt9S12X MCU Card Selector Guide

Properties	AD9S12XDP512	AD9S12XEP100	AD9S12XS128
RAM	32K	64K	8K
EEPROM	8K	4K	8K
FLASH	512K	1M	128K
CRYSTAL FREQ. (MHz)	16	4	4
MAX. BUS SPEED (Mhz)	40	50	40
XGATE RISC CO-PROCESSOR	YES	YES	NO
XGATE BUS SPEED (Mhz)	80	100	-
SCI	4	8	2
SPI	2	3	1
IIC	1	2	-
CAN SUBSYSTEMS ON CHIP	4	5	1
A/D CHANNELS	2 x 8	16	16
A/D RESOLUTION (BITS)	10	12	12
PWM CHANNELS	4 x 16-bit or 8 x 8-bit	4 x 16-bit or 8 x 8-bit	4 x 16-bit or 8 x 8-bit
KEY WAKEUP PINS	20	20	16
INPUT CAPTURE/OUTPUT COMPARE CHANNELS	8	16	8 x 16-bit
PINS FOR DIGITAL INPUT ONLY	2 (PE0, PE1)	2 (PE0, PE1)	2 (PE0, PE1)
PINS FOR DIGITAL I/O	73	73	76
VCC (Volts)	5 (3.3V option available)	5 (3.3V option available)	5 (3.3V option available)
RS232 PORTS	2	2	2
CAN TRANSCEIVERS	2	-	-
RS485 TRANSCEIVERS	1	-	1
USER LED PORT PIN	PP7	PP7	PT4
NOM. DIMENSIONS (IN.)	3.25 x 2.25	3.25 x 2.25	3.25 x 2.25
NOM. DIMENSIONS (MM)	83 x 57	83 x 57	83 x 57
NOM. WEIGHT (g)	40	40	45
NOM. CURRENT (mA)	70	70	70
BOOTLOADER/MONITOR	TA XD SerMon	TA XE SerMon	TA XS SerMon
ON-CHIP FLASH UTILITY	TA XD SerMon	TA XE SerMon	TA XS SerMon
Free multi-platform GUI for Serial Monitor	uBug12	uBug12	uBug12
RECOMMENDED BDM POD	USBDMILT	USBDMILT	USBDMILT
ROOT ORDER CODE *	AD9S12XDP512M2-	AD9S12XEP100M2-	AD9S12XS128M-
UNIT PRICE (U.S.)	\$ 115.00	\$ 131.00	\$ 79.00

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

5/29/14