

Simulator Debug Features by Device

Information taken from MPLAB X IDE device database files.

Table Headings: See a list of heading descriptions below the table.

Table Cells: To sort the data, use the CSV file in SimDebugFeatures.zip.

Color Legend: *Green cells:* supported; *Gray cells:* no support.

Text Legend: *Yes or Value:* supported; *No:* no support; *N/A:* no information in database.

Device	Prog/Data BPs	Data BPAccess	Tuples (ANDed BPs)	Sequenced BPs	Range BPs	Table R/W BPs	PassCounter	Clock Switch Break	Sleep Wake Break	Stack Over/Under Break	WDT Timeout Break	Stopwatch	Trace	Analyzer
AT90CAN128	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AT90CAN32	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AT90CAN64	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AT90PWM1	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AT90PWM161	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AT90PWM216	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AT90PWM2B	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AT90PWM316	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AT90PWM3B	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AT90PWM81	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AT90USB1286	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AT90USB1287	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AT90USB162	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AT90USB646	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AT90USB647	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AT90USB82	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATA5700M322	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATA5702M322	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATA5781	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATA5782	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATA5783	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATA5787	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATA5831	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATA5832	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATA5833	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATA5835	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATA8210	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATA8215	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATA8510	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATA8515	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATSAMC20E15A	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes
ATSAMC20E16A	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes
ATSAMC20E17A	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes
ATSAMC20E18A	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes
ATSAMC20G15A	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes
ATSAMC20G16A	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes
ATSAMC20G17A	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes
ATSAMC20G18A	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes
ATSAMC20J15A	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes
ATSAMC20J16A	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes
ATSAMC20J17A	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes
ATSAMC20J17AU	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes
ATSAMC20J18A	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes
ATSAMC20J18AU	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes
ATSAMC20N17A	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes
ATSAMC20N18A	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes

Device	Prog/Data BPs	Data BPAccess	Tuples (ANDed BPs)	Sequenced BPs	Range BPs	Table R/W BPs	PassCounter	Clock Switch Break	Sleep Wake Break	Stack Over/Under Break	WDT Timeout Break	Stopwatch	Trace	Analyzer
ATTiny861	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATTiny861A	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATTiny87	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATTiny88	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATTiny9	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega128A1	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega128A1U	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega128A3	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega128A3U	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega128A4U	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega128B1	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega128B3	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega128C3	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega128D3	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega128D4	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega16A4	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega16A4U	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega16C4	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega16D4	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega16E5	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega192A3	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega192A3U	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega192C3	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega192D3	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega256A3	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega256A3B	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega256A3BU	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega256A3U	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega256C3	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega256D3	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega32A4	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega32A4U	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega32C3	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega32C4	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega32D3	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega32D4	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega32E5	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega384C3	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega384D3	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega64A1	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega64A1U	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega64A3	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega64A3U	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega64A4U	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega64B1	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega64B3	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega64C3	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega64D3	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega64D4	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ATXmega8E5	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AVR128DA28	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AVR128DA32	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AVR128DA48	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AVR128DA64	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AVR128DB28	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AVR128DB32	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes

Device	Prog/Data BPs	Data BPAccess	Tuples (ANDed BPs)	Sequenced BPs	Range BPs	Table R/W BPs	PassCounter	Clock Switch Break	Sleep Wake Break	Stack Over/Under Break	WDT Timeout Break	Stopwatch	Trace	Analyzer
AVR128DB48	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AVR128DB64	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AVR32DA28	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AVR32DA32	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AVR32DA48	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AVR32DB28	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AVR32DB32	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AVR32DB48	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AVR64DA28	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AVR64DA32	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AVR64DA48	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AVR64DA64	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AVR64DB28	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AVR64DB32	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AVR64DB48	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AVR64DB64	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AVR64DD14	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AVR64DD20	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AVR64DD28	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AVR64DD32	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
CEC1712H_B2_SX	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes
CEC1712H_N2_SX	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes
CEC1712H_S2_SX	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes
CEC1734_S0_SX	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes
CEC1736_S0_SX	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes
MCV08A	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
MCV14A	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
MCV18A	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
MCV18E	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
MCV20USB	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
MCV28A	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
MEC1501H_B0_SZ	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
MEC1501H_B0_TF	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
MEC1501H_B0_ZZ	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
MEC1503H_L1_3Y	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
MEC1503H_L1_SZ	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
MEC1507H_B0_SZ	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
MEC1507H_B0_TF	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
MEC1515H_D0_NB	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
MEC1521H_B0_SZ	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
MEC1521H_B0_TF	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
MEC1521H_B0_ZZ	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
MEC1523H_B0_SZ	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
MEC1523H_L1_3Y	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
MEC1523H_L1_SZ	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
MEC1527H_B0_SZ	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
MEC1721N_B0_LJ	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
MEC1721N_B0_SZ	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
MEC1723N_B0_LJ	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
MEC1723N_B0_SZ	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
MEC1723N_F0_SZ	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
MEC1723N_PO_9Y	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
MEC1725N_B0_LJ	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
MEC1727N_B0_SZ	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
MGC3140	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes
PIC10F200	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes

Device	Prog/Data BPs	Data BPAccess	Tuples (ANDed BPs)	Sequenced BPs	Range BPs	Table R/W BPs	PassCounter	Clock Switch Break	Sleep Wake Break	Stack Over/Under Break	WDT Timeout Break	Stopwatch	Trace	Analyzer
PIC10F202	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC10F204	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC10F206	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC10F220	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC10F222	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC10F320	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC10F322	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC10LF320	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC10LF322	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12C508	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12C508A	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12C509	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12C509A	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12C671	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12C672	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12CE518	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12CE519	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12CE673	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12CE674	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12CR509A	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12F1501	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12F1571	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12F1572	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12F1612	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12F1822	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12F1840	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12F508	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12F509	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12F510	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12F519	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12F529T39A	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12F529T48A	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12F609	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12F615	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12F617	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12F629	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12F635	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12F675	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12F683	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12F752	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12HV609	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12HV615	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12HV752	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12LF1501	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12LF1552	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12LF1571	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12LF1572	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12LF1612	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12LF1822	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12LF1840	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12LF1840T39A	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC12LF1840T48A	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC16C432	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC16C433	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC16C505	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC16C54	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes

Device	Prog/Data BPs	Data BPAccess	Tuples (ANDed BPs)	Sequenced BPs	Range BPs	Table R/W BPs	PassCounter	Clock Switch Break	Sleep Wake Break	Stack Over/Under Break	WDT Timeout Break	Stopwatch	Trace	Analyzer
PIC24FV32KA301	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24FV32KA302	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24FV32KA304	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ128GP202	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ128GP204	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ128GP206	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ128GP206A	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ128GP210	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ128GP210A	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ128GP306	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ128GP306A	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ128GP310	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ128GP310A	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ128GP502	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ128GP504	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ128GP506	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ128GP506A	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ128GP510	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ128GP510A	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ12GP201	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ12GP202	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ16GP304	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ256GP206	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ256GP206A	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ256GP210	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ256GP210A	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ256GP610	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ256GP610A	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ32GP202	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ32GP204	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ32GP302	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ32GP304	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ64GP202	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ64GP204	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ64GP206	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ64GP206A	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ64GP210	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ64GP210A	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ64GP502	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ64GP504	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ64GP506	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ64GP506A	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ64GP510	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC24HJ64GP510A	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
PIC32CM1216MC00032	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes
PIC32CM1216MC00048	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes
PIC32CM6408MC00032	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes
PIC32CM6408MC00048	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes
PIC32CX0525SG12084	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes
PIC32CX0525SG12144	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes
PIC32MK0256GPG048	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes
PIC32MK0256GPG064	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes
PIC32MK0256MCJ048	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes
PIC32MK0256MCJ064	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes
PIC32MK0512GPD064	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes
PIC32MK0512GPD100	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	No	No	Yes	Yes	Yes	Yes

Simulator Debug Features by Device

Device	Prog/Data BPs	Data BPAccess	Tuples (ANDed BPs)	Sequenced BPs	Range BPs	Table R/W BPs	PassCounter	Clock Switch Break	Sleep Wake Break	Stack Over/Under Break	WDT Timeout Break	Stopwatch	Trace	Analyzer
dsPIC33FJ64MC802	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
dsPIC33FJ64MC804	1000 Total	R/W/Either	1000	1000/1000	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
rfPIC12C509AF	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
rfPIC12C509AG	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
rfPIC12F675E	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
rfPIC12F675H	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
rfPIC12F675K	1000 Total	R/W/Either	1000	1000/1000	N/A	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes

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Simulator Debug Features Table - Heading Descriptions

Feature	Feature Description*
Device	Device has either yellow or green light support in MPLAB® X IDE.
Prog/Data BPs	Maximum number of Program and Data Memory breakpoints. X Total: X breakpoints are shared between program and data memory.
Data BP Access	Break on data fetch, data write or either data fetch or write.
Tuples (ANDed BPs)	Maximum number of Tuples (ANDed breakpoints). A tuple consists of one program memory breakpoint ANDed with one data memory breakpoint. Breakpoint 1 AND breakpoint 2 must occur at the same time before a program halt.
Sequenced BPs	Maximum number of sequences and sequenced breakpoints. X/Y: X is the maximum number of a breakpoint sequences. Y is the maximum number of breakpoints in the sequence. A breakpoint sequence is a list of breakpoints that execute but do not halt until the last breakpoint is executed.
Range BPs	Break on a range of program or data memory addresses.
Table R/W BPs	Break on a table read or write.
Pass Counter	Break after a specified number of passes occur, specified by a counter.
Clock Switch Break	Break on clock switching
Sleep Wake Break	Break on wake from Sleep
Stack Over/Under Break	Break on stack overflow/underflow
WDT Timeout Break	Break on Watchdog Timer timeout
Stopwatch	Use the stopwatch with breakpoints to time code execution. Stopwatch uses 1-2 breakpoint resources
Trace	Simulator Trace Simulation speed is reduced by up to 50% when using trace.
Analyzer	Simulator Logic Analyzer
* See simulator documentation (PDF or Help file) for details on debug features.	