

Tools and device support

AVR Studio 4 support all new Atmel AVR debug platforms and devices. See below for a table of currently supported tools and devices in AVR Studio 4. New supported devices and platforms marked in **red bold**.

	Simulator	ICE50	JTAGICE mkII	AVR ONE!	JTAGICE	ICE200	AVR Dragon	STK500/ISP/mkII	AVRISP mkII	STK600	AVRASM2
tinyAVR											
ATTiny10	✓									✓	✓
ATTiny11	✓						HVSP	✓		✓	✓
ATTiny12	✓					✓	ISP/HVSP	✓	✓	✓	✓
ATTiny13	✓	✓	✓				ISP/HVSP/dw	✓	✓	✓	✓
ATTiny13A	✓	✓	✓				ISP/HVSP/dw	✓	✓	✓	✓
ATTiny15	✓						ISP/HVSP	✓	✓	✓	✓
ATTiny22	✓							✓	✓		✓
ATTiny2313	✓	✓	✓				ISP/HVSP/dw	✓	✓	✓	✓
ATTiny24/A	✓		✓				ISP/HVSP/dw	✓ STK505	✓	✓	✓
ATTiny25	✓	✓	✓				ISP/HVSP/dw	✓	✓	✓	✓
ATTiny26	✓	✓					ISP/PP	✓	✓	✓	✓
ATTiny28	✓						PP	✓		✓	✓
ATTiny43U	✓		✓				ISP/PP/dw	ISP Only	✓	✓	✓
ATTiny44/A	✓		✓				ISP/HVSP/dw	✓ STK505	✓	✓	✓
ATTiny45	✓	✓	✓				ISP/HVSP/dw	✓	✓	✓	✓
ATTiny48	✓		✓				ISP/HVSP/dw	✓	✓	✓	✓
ATTiny84	✓		✓				ISP/HVSP/dw	✓ STK505	✓	✓	✓
ATTiny85	✓	✓	✓				ISP/HVSP/dw	✓	✓	✓	✓
ATTiny88	✓		✓				ISP/HVSP/dw	✓	✓	✓	✓
ATTiny167	✓		✓				ISP/PP/dw	✓	✓	✓	✓
ATTiny261/A	✓	✓	✓				ISP/PP/dw	✓	✓	✓	✓
ATTiny461	✓	✓	✓				ISP/PP/dw	✓	✓	✓	✓
ATTiny861/A	✓	✓	✓				ISP/PP/dw	✓	✓	✓	✓
classicAVR											
AT90S1200	✓							✓	✓		✓
AT90S2313	✓					✓		✓	✓		✓
AT90S2323	✓							✓	✓		✓
AT90S2343	✓							✓	✓		✓
AT90S4433	✓					✓		✓	✓		✓
AT90S8515	✓	✓ 				✓		✓	✓		✓
AT90S8535	✓	✓ 				✓		✓	✓		✓
megaAVR											
ATmega8	✓	✓					ISP/PP	✓	✓	✓	✓
ATmega8A	✓	✓					ISP/PP	✓	✓	✓	✓
ATmega8515	✓	✓					ISP/PP	✓	✓	✓	✓
ATmega8535	✓	✓					ISP/PP	✓	✓	✓	✓
ATmega16	✓	✓	✓		✓		ISP/PP/JP/JD	✓	✓	✓	✓
ATmega16A	✓	✓	✓		✓		ISP/PP/JP/JD	✓	✓	✓	✓
ATmega32	✓	✓	✓		✓		ISP/PP/JP/JD	✓	✓	✓	✓
ATmega32A	✓	✓	✓		✓		ISP/PP/JP/JD	✓	✓	✓	✓
ATmega48	✓	✓	✓				ISP/PP/dw	✓	✓	✓	✓
ATmega48P/A	✓		✓				ISP/PP/dw	✓	✓	✓	✓
ATmega88	✓	✓	✓				ISP/PP/dw	✓	✓	✓	✓
ATmega88P	✓		✓				ISP/PP/dw	✓	✓	✓	✓
ATmega168	✓	✓					ISP/PP/dw	✓	✓	✓	✓
ATmega168P	✓		✓				ISP/PP/dw	✓	✓	✓	✓
ATmega323	✓		✓		✓			✓	✓		✓
ATmega161	✓	✓ 						✓	✓		✓
ATmega162	✓	✓	✓		✓		ISP/PP/JP/JD	✓	✓	✓	✓
ATmega163	✓							✓	✓		✓
ATmega64	✓	✓	✓		✓		ISP/PP/JP	✓ STK501	✓	✓	✓
ATmega64A	✓	✓	✓		✓		ISP/PP/JP	✓ STK501	✓	✓	✓
ATmega103	✓	✓ 			✓			✓ STK501	✓		✓
ATmega128	✓	✓	✓		✓		ISP/PP/JP	✓ STK501	✓	✓	✓
ATmega128A	✓	✓	✓		✓		ISP/PP/JP	✓ STK501	✓	✓	✓
ATmega165	✓	✓	✓				ISP/PP/JP/JD	✓ STK502	✓	✓	✓
ATmega165P	✓		✓				ISP/PP/JP/JD	✓ STK502	✓	✓	✓
ATmega169	✓	✓	✓		✓		ISP/PP/JP/JD	✓ STK502	✓	✓	✓
ATmega169P	✓		✓				ISP/PP/JP/JD	✓ STK502	✓	✓	✓
ATmega324P	✓						ISP/PP/JP/JD	✓	✓	✓	✓
ATmega325	✓	✓	✓				ISP/PP/JP/JD	✓ STK502	✓	✓	✓
ATmega3250	✓		✓				ISP/PP/JP/JD	✓ STK504	✓	✓	✓
ATmega328P	✓						ISP/PP/JP/JD	✓	✓	✓	
ATmega329	✓	✓	✓				ISP/PP/JP/JD	✓ STK502	✓	✓	✓

ATmega3290	✓		✓			ISP/PP/JP/JD	✓ STK504	✓	✓	✓
ATmega3250P	✓		✓			ISP/PP/JP/JD	✓ STK504	✓	✓	✓
ATmega325P	✓		✓			ISP/PP/JP/JD	✓ STK502	✓	✓	✓
ATmega3290P	✓		✓			ISP/PP/JP/JD	✓ STK504	✓	✓	✓
ATmega329P	✓		✓			ISP/PP/JP/JD	✓ STK502	✓	✓	✓
ATmega644P	✓	✓	✓			ISP/PP/JP	✓	✓	✓	✓
ATmega645P	✓	✓	✓			ISP/PP/JP	✓ STK502	✓	✓	✓
ATmega6450P	✓		✓			ISP/PP/JP	✓ STK504	✓	✓	✓
ATmega6490P	✓		✓			ISP/PP/JP	✓ STK504	✓	✓	✓
ATmega649P	✓	✓	✓			ISP/PP/JP	✓ STK502	✓	✓	✓
ATmega2560	✓		✓			ISP/PP/JP	✓ STK503	✓	✓	✓
ATmega2561	✓	✓	✓			ISP/PP/JP	✓ STK501	✓	✓	✓
ATmega644	✓	✓	✓			ISP/PP/JP	✓	✓	✓	✓
ATmega640	✓		✓			ISP/PP/JP	✓ STK503	✓		✓
ATmega1281	✓	✓				ISP/PP/JP	✓ STK501	✓	✓	✓
ATmega1280	✓		✓			ISP/PP/JP	✓ STK503	✓	✓	✓
ATmega1284P	✓		✓			ISP/PP/JP	✓	✓	✓	✓
ATmega164P	✓		✓			ISP/PP/JP/JD	✓	✓	✓	✓
ATmega88PA	✓		✓			ISP/PP/dw	✓	✓	✓	✓
ATmega168PA	✓		✓				✓	✓	✓	✓
ATmega324PA	✓		✓				✓	✓	✓	✓
XMEGA										
ATxmega64A1	✓		✓	✓				✓	✓	✓
ATxmega128A1	✓		✓	✓				✓	✓	✓
ATxmega256A3	✓		✓	✓				✓	✓	✓
ATxmega128A3	✓		✓	✓				✓	✓	✓
ATxmega64A3	✓		✓	✓				✓	✓	✓
ATxmega256A3B	✓		✓	✓				✓	✓	✓
										✓
Smart Battery AVR										
ATmega406	✓		✓			JP/JD	✓			✓
ATmega16HVA	✓		✓			ISP/HVSP/dw	✓	✓		✓
ATmega32HVB	✓		✓			ISP/HVSP/dw	✓	✓	✓	✓
USB AVR										
AT90USB82	✓		✓			ISP/PP/dw	✓ STK526	✓	✓	✓
AT90USB162	✓		✓			ISP/PP/JP/JD	✓ STK526	✓	✓	✓
ATmega16U4	✓		✓			ISP/PP/JP/JD	✓	✓	✓	✓
ATmega32U4	✓		✓			ISP/PP/JP/JD	✓	✓	✓	✓
ATmega32U6	✓		✓			ISP/PP/JP/JD		✓	✓	✓
AT90USB646	✓		✓			ISP/PP/JP	✓ STK525	✓	✓	✓
AT90USB647	✓		✓			ISP/PP/JP	✓ STK525	✓	✓	✓
AT90USB1286	✓		✓			ISP/PP/JP	✓ STK525	✓	✓	✓
AT90USB1287	✓		✓			ISP/PP/JP	✓ STK525	✓	✓	✓
Lighting AVR										
AT90PWM2	✓		✓			ISP/PP/dw	✓ STK520	✓	✓	✓
AT90PWM2B	✓		✓			ISP/PP/dw	✓ STK520	✓	✓	✓
AT90PWM3	✓		✓			ISP/PP/dw	✓ STK520	✓	✓	✓
AT90PWM3B	✓		✓			ISP/PP/dw	✓ STK520	✓	✓	✓
AT90PWM216	✓		✓			ISP/PP/dw	✓ STK520	✓	✓	✓
AT90PWM316	✓		✓			ISP/PP/dw	✓ STK520	✓	✓	✓
ATmega32M1	✓		✓			ISP/PP/dw	✓	✓	✓	✓
CAN AVR										
AT90CAN32	✓	✓	✓			ISP/PP/JP/JD	✓	✓	✓	✓
ATmega32C1	✓		✓			ISP/PP/dw	✓	✓	✓	✓
AT90CAN64	✓	✓	✓			ISP/PP/JP	✓	✓	✓	✓
AT90CAN128	✓	✓	✓		✓ (Limited)	ISP/PP/JP		✓	✓	✓
							✓ STK501,ATADAPCAN1	✓	✓	✓
Other										
AT86RF401	✓						✓			✓

❶ Supported in compatibility mode

Abbreviations

ISP: In System Programming

HVSP: High voltage serial programming
PP: Parallel Programming high voltage
dw: debugWire
JP: JTAG Programming
JD: JTAG Debugging

Note: AVR Dragons does not support debugging on devices above 32kB.