

Software Development Tool Chains (Including Associated JTAG Debuggers / Emulators)

Selecting the right software development tool chain can be as important as selecting the right microcontroller. NXP's microcontrollers are supported by a large number of software development tools. Integrated Development Environments (IDEs) provide you with a graphical project management interface for every step of your application development, including editing, compiling, and debugging your application code. For added flexibility, many IDEs work with a variety of JTAG debuggers, emulators, and compilers.

Supplier	Software Package	Integrated Development Environment (IDE)	Associated / Supported C/C++ Compiler(s)	Associated Debugger Software	Supported In-Circuit Debuggers, Emulators
Altium / TASKING	VX-toolset for ARM	TASKING EDE (Embedded Development Environment)	TASKING compiler	TASKING CrossView Pro	e.g. Hitex Tantino / Tanto, SEGGER J-Link
Amontec	Software Development Kit for ARM (sdk4arm)	Eclipse platform / Embedded Zylín plug-ins	GNU ARM GCC	GNU ARM GDB (+ Insight)	Amontec JTAGkey
ARM	RealView Development Suite (RVDS)	ARM Workbench IDE	ARM RealView compiler	ARM RealView Debugger	RealView ICE, RealView Trace, RealView Trace 2
Ashling	AsIDE for ARM	AsIDE (Ashling IDE)	GNU, also GHS, Keil/ARM, IAR and others	Ashling PathFinder Source Debugger	Ashling Opella
Code Red	Red Suite 2	Red Suite 2 IDE (Eclipse-based)	GNU w/ Code Red libraries	Red Suite Debugger including Red Trace functionality	Red Probe
CodeSourcery	Sourcery G++	Sourcery G++ IDE (Eclipse-based)	GNU ARM GCC	Sourcery G++ Debugger	many popular JTAG, BDM and USB debuggers as well as GDB Server
Computex	CSIDE	CSIDE IDE	Various	CSIDE Debugger	Computex PALMiCE debuggers and emulators
Embest	Embest IDE for ARM	Embest IDE	GNU, also ARM	Embest Debugger	Embest PowerICE / UNetICE
Express Logic	BenchX	BenchX IDE (Eclipse-based)	GNU	BenchX Debugger (GDB debugger engine)	BenchX Debug Probe
Green Hills Software	Green Hills Development Tools for ARM	MULTI	Green Hills optimizing compilers	Green Hills Debugger / TimeMachine	Green Hills Probe / SuperTrace Probe
Hitex Development Tools	HiTOP IDE/Debugger	HiTOP	GNU, also TASKING, Keil/ARM, IAR	Hitex HiTOP	Hitex Cortino for Cortex / Tantino / Tanto for ARM
IAR	Embedded Workbench for ARM (EWARM)	EWARM	IAR compiler	IAR C-SPY	IAR J-Link / J-Trace; other RDI-based JTAG debuggers
Ice Technology (Nohau brand)	Nohau EMUL-ARM	Nohau SeeHau User Interface	GNU, supports various 3rd-party compilers	Nohau SeeHau debugger	Nohau EMUL-ARM PC
ImageCraft	ICCV7	ImageCraft IDE	ICCV7	NoICE-ARM	Nohau, SEGGER, Lauterbach, Ashling, CrossWorks, etc.
iSYSTEM	winIDEA	winIDEA	GNU, also GHS, IAR, Keil/ARM, TASKING	iSYSTEM winIDEA	iSYSTEM IONE / iC3000
Keil / ARM	Microcontroller Development Kit (MDK-ARM)	µVision	ARM RealView, also GNU	Keil µVision Debugger	Keil ULINK2; also Signum, Hitex, iSYSTEM, etc.
Lauterbach	TRACE32	TRACE32 PowerView IDE	Supports all major ARM compilers	TRACE32 PowerView debugger, TRACE32-MON	TRACE-32 ICD, TRACE-32 PowerTrace, TRACE-32 ETB
Mentor Graphics	EDGE	EDGE IDE (Eclipse-based)	EDGE compiler	EDGE Debugger (Eclipse-based)	MAJIC JTAG Probe
National Instruments	LabVIEW for ARM	LabVIEW Graphical Programming solution	ARM RealView (via Keil uVision)	Keil µVision Debugger	Keil ULINK2; also Signum, Hitex, iSYSTEM, etc.
Oasis Technologies	Triton IDE	Triton IDE	GNU	Triton debugger	Odyssey Ethernet JTAG Debugger
Phyton	CodeMaster-ARM	CodeMaster-ARM IDE	Phyton CMC, also GNU	CodeMaster-ARM + OCD driver	JEM-ARM JTAG debugger
pls Development Tools	Universal Debug Engine (UDE)	Universal Debug Engine (UDE) IDE	Supports all available ARM compilers	Universal Debug Engine (UDE)	pls Universal Access Devices (UAD2compact, UAD2, UAD2+)
Raisonance	RIDE	RIDE (Raisonance IDE)	GNU	RIDE debugger	Raisonance RLink (Std / Pro)
Rowley Associates	CrossWorks for ARM	CrossStudio	GNU w/ Rowley libraries	CrossStudio debugger	Rowley CrossConnect for ARM; Segger J-Link; etc.
Signum Systems	Chameleon	Chameleon IDE	Supports all major ARM compilers	Signum Chameleon debugger	Signum JTAGjet / JTAGjet-Trace
SPJ Technologies	SCARM	SCARM IDE	SCARM C compiler, also GNU	SDB Debugger	SPJ Systems' JTAGs (SJT-S and SJT-U)
ZLG	TKStudio	TKStudio IDE	GNU, also ARM RealView	TK Studio Debugger	EasyJTAG-H, various others