

INTEL QUARTUS PRIME DESIGN SOFTWARE


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The Intel Quartus Prime software is revolutionary in performance and productivity for FPGA, CPLD, and SoC designs, providing a fast path to convert your concept into reality. The Intel Quartus Prime software also supports many third-party tools for synthesis, static timing analysis, board-level simulation, signal integrity analysis, and formal verification.

INTEL QUARTUS PRIME DESIGN SOFTWARE V19.1			AVAILABILITY		
			PRO EDITION (\$)	STANDARD EDITION (\$)	LITE EDITION (FREE)
Device Support	Stratix series	IV, V		✓	
		10	✓		
	Arria series	II			✓ ¹
		II, V		✓	
		10	✓	✓	
	Cyclone series	IV, V		✓	✓
		10 LP		✓	✓
		10 GX	✓ ²		
MAX series			✓	✓	
Design Flow	Partial reconfiguration	✓	✓ ³		
	Rapid recompile	✓	✓ ⁴		
	Block-based design	✓			
	Incremental optimization	✓			
Design Entry/Planning	IP Base Suite	✓	✓	Available for purchase	
	Intel HLS Compiler	✓	✓	✓	
	Platform Designer (Standard)		✓	✓	
	Platform Designer (Pro)	✓			
	Design Partition Planner	✓	✓		
	Chip Planner	✓	✓	✓	
	Interface Planner	✓			
	Logic Lock regions	✓	✓		
	VHDL	✓	✓	✓	
	Verilog	✓	✓	✓	
	SystemVerilog	✓	✓ ⁵	✓ ⁵	
VHDL-2008	✓	✓ ⁵			
Functional Simulation	ModelSim-Intel FPGA Starter Edition software	✓	✓	✓	
	ModelSim-Intel FPGA Edition software	✓ ⁶	✓ ⁶	✓ ⁶	
Compilation (Synthesis & Place and Route)	Fitter (Place and Route)	✓	✓	✓	
	Early placement	✓			
	Register retiming	✓	✓		
	Fractal synthesis	✓			
	Multiprocessor support	✓	✓		
Timing and Power Verification	Timing Analyzer	✓	✓	✓	
	Design Space Explorer II	✓	✓	✓	
	Power Analyzer	✓	✓	✓	
In-System Debug	Signal Tap Logic Analyzer	✓	✓	✓	
	Transceiver toolkit	✓	✓		
	Intel Advanced Link Analyzer	✓	✓		
Operating System (OS) Support	Windows*/Linux* 64 bit support	✓	✓	✓	

Notes:

- The only Arria II FPGA supported is the EP2AGX45 device.
- The Intel Cyclone 10 GX device support is available for free in the Pro Edition software.
- Available for Cyclone V and Stratix V devices only and requires a partial reconfiguration license.
- Available for Stratix V, Arria V, and Cyclone V devices.
- Limited language support.
- Requires an additional license.