



XC9500 and CoolRunner CPLDs

Whether performing high-speed networking or power-conscious portable designs, Xilinx CPLDs provide you with a complete range of value oriented products.

XC9500™ – Offers industry-leading speeds, while giving you the flexibility of an enhanced customer-proven pin-locking architecture along with extensive IEEE Std. 1149.1 JTAG boundary-scan support.

CoolRunner™ – Offers the patented Fast Zero Power (FZP) design technology, combining low power and high speed. These devices offer standby currents of less than 100 microamps, operating currents 50-67% lower than traditional CPLDs, and pin-to-pin speeds of 5.0 ns.

- **WebPOWERED™ Software Solutions** – Offers you the flexibility to target Xilinx CPLD and FPGA products online or on the desktop, including:
- **WebFITTER™** – An online device-fitting and evaluation tool that accepts HDL, ABEL, or netlist files, and provides all reports, simulation models, and programming files, along with price quotes. Available to support all Xilinx CPLD products.

- **WebPACK™ ISE** – Downloadable desktop solutions that offer free CPLD and FPGA software modules for ABEL/HDL synthesis and simulation, device-fitting, and JTAG programming.

Through leading performance, free Internet-based WebPOWERED software, and the industry's lowest power consumption, Xilinx has the right CPLD and FPGA for every designer's need.

See www.xilinx.com for more information.

CPLD Product Selection Matrix				Density		Features				
Core Voltage	CPLD Family	Device	Key Features	Macrocells	Max. I/O	Pin-to-Pin Delay (ns)	System Frequency	Individual OE Ctrl	JTAG	Ultra Low Power
2.5 VOLT ISP	XC9500XV	XC9536XV	Best Pin-Locking JTAG w/Clamp High Performance High Endurance	36	36	3.5	278	√	√	–
		XC9572XV		72	72	4	250	√	√	–
		XC95144XV		144	117	4	250	√	√	–
		XC95288XV		288	192	5	222	√	√	–
3.3 Volt ISP	XC9500XL	XC9536XL	Best Pin-Locking JTAG w/Clamp High Performance High Endurance	36	36	5	222	√	√	–
		XC9572XL		72	72	5	222	√	√	–
		XC95144XL		144	117	5	222	√	√	–
		XC95288XL		288	192	6	208	√	√	–
	CoolRunner XPLA3	XCR3032XL	Ultra Low Power JTAG Increased Logic Flexibility	32	36	5	175	–	√	√
		XCR3064XL		64	68	6	145	–	√	√
		XCR3128XL		128	108	6	145	–	√	√
		XCR3256XL		256	164	7.5	140	–	√	√
		XCR3384XL		384	220	7.5	127	–	√	√
		XCR3512XL		512	TBD	TBD	TBD	–	√	√
5 Volt ISP	XC9500	XC9536	Best Pin-Locking JTAG High Endurance	36	34	5	100	√	√	–
		XC9572		72	72	7.5	83.3	√	√	–
		XC95108		108	108	7.5	83.3	√	√	–
		XC95144		144	133	7.5	83.3	√	√	–
		XC95216		216	166	10	66.7	√	√	–
		XC95288		288	192	10	66.7	√	√	–