XC9500 and CoolRunner CPLDs

Whether performing high speed networking-based 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 5.0ns.

WebPOWERED Software Solutions - Offer you the flexibility to target the XC9500 and CoolRunner Series CPLDs on-line or on the desktop, including:

- **WebFITTER -** an on-line 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.

- **WebPACK -** downloadable desktop solutions that offer free CPLD 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 for every designer's need.

See www.xilinx.com/products/cpldsolutions/index.htm for more information

CPLD Product Selection Matrix				Density		Features					
Core Voltage	CPLD Family	Devices	Key Features	Macrocells	Max. I/O	Pin-to-Pin Delay (ns)	System Frequency	Individual OE Ctrl	JTAG	Ultra Low-Power	Philips Part Number
3.3 Volt ISP	XC9500XL	XC9536XL	Best Pin-Locking JTAG w/Clamp High Performance High Endurance	36	36	4	200	√	√		
		XC9572XL		72	72	5	178.6	√	√		
		XC95144XL		144	117	5	178.6	√	√		
		XC95288XL		288	192	6	151	√	√		
	XPLA3	XCR3032XL	Ultra Low Power JTAG Increased Logic Flexibility	32	32	5	200		√	√	
		XCR3064XL		64	64	6	166		√	√	
		XCR3128XL		128	104	6	166		√	√	
		XCR3256XL		256	160	7.5	133		√	√	
		XCR3384XL		384	216	7.5	133		√	√	
	XPLA-Enhanced	XCR3032A	Ultra Low Power JTAG	32	32	6	111		√	√	PZ3032A
		XCR3064A		64	64	7.5	95		√	√	PZ3064A
		XCR3128A		128	96	7.5	95		√	√	PZ3128A
	XPLA2	XCR3320	Ultra Low Power High Density	320	192	7.5	100		√	√	PZ3320C
		XCR3960		960	384	7.5	100		√	√	PZ3960C
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	√	√		
	XPLA-Enhanced	XCR5032C	Ultra Low Power JTAG	32	32	6	111		√	√	PZ5032C
		XCR5064C		64	64	7.5	105		√	√	PZ5064C
		XCR5128C		128	96	7.5	100		√	√	PZ5128C