Xilinx XC4000XV series doubles the capacity of the programmable logic industry

The XC4000XV FPGA family represents the first products produced from the joint venture with United Microelectronics Corporation in Taiwan. The process is a second generation of the Xilinx 0.25-micron process building on the first generation 0.25-micron process Xilinx announced last year. This FPGA family ranges in density from 110,000 to 500,000 system gates and 2.5 volt core operation and is a density extension of the industry's single most successful FPGA architecture, the XC4000 series, since inception in 1992.

Key features of the industry's highest density FPGA:

- 500,000 system gates
- system performance of over 100 MHz
- 2.5-volt internal operation with 3.3-volt I/Os for compatibility with existing voltage standards
- second generation 0.25 micron process with five layers of metal
- actual drawn gate length of 0.22 micron
- footprint compatible with the XC4000XL family

Product availability:	Logic	System	Maximum		low volume
	cells	gates	I/Os	Price *	Availability
XC40110XV-09 (PQ 240)	9,728	75k - 200k	448	\$132	98Q4
XC40150XV-09 (PQ240)	12,312	100k - 300k	448	198	now
XC40200XV-09 (BG432)	16,758	130k - 400k	448	288	98Q4
XC40250XV-09 (BG432)	20,102	180k - 500k	448	403	98Q4
* Driving for 100,000 plus unit quantities in mid 1000					

* Pricing for 100,000-plus unit quantities in mid-1999

Package options:

240-pin Quad Flat Pack(QFP) 559- pin Pin Grid Array (PGA) 352-pin, 432-pin, 560-pin ball grid array (BGA) One mm ball grid array (BGA)

Configuration solutions:

The Xilinx XC1704L and XC1702L SPROM in 44-pin very thin quad flat packages (VQ44) support these higher density devices

- The XC1704L is the largest SPROM for FPGAs in the industry in serial configuration bit size—only 2 Mb and 4 Mb SPROM offerings in the industry
- easiest to design as FPGA designer generates and downloads the bitstream
- lowest cost configuration solution for FPGA designers
 - ~ saves board space because there is only one part
 - ~ does not require customers to do a process/logic/flash combination solution

Software support:

Available now in the latest version, version 1.5, both the Foundation and Alliance Series software