

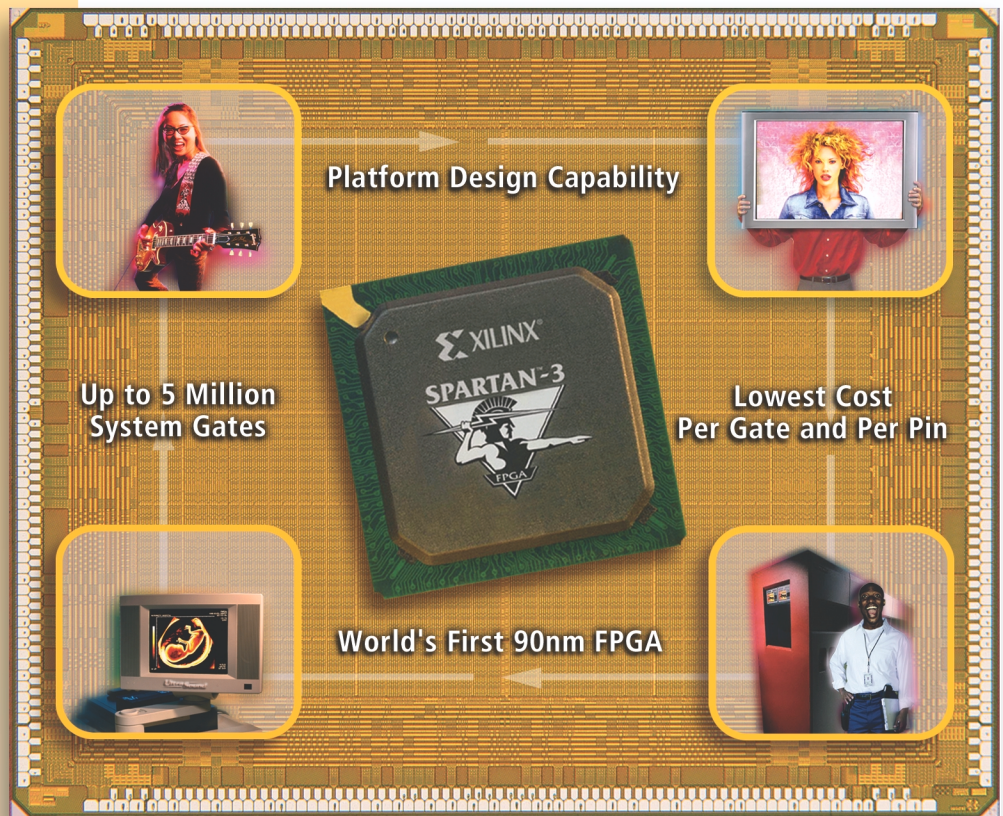


The Spartan-3 Platform™ World's Lowest Cost FPGAs

You want the lowest cost solution with the fastest time to market. ASICs are in decline because of high development costs and lengthy design cycles.

Xilinx redefines the logic landscape with the Spartan-3 Platform FPGA family. Built on four generations of proven Spartan success in high volume applications, Spartan-3 FPGAs use 90nm technology to give you up to 5 million system gates with the lowest cost per gate and per I/O of any FPGA. You also get a platform with the capability to tackle tough connectivity, DSP, and embedded processing designs. Use our industry-leading ISE software tools and proven IP cores to develop your design quickly, and the ChipScope™ Pro logic analyzer to debug it.

With Spartan-3 FPGA cost advantages, you can now use FPGAs in production at much higher volumes than ever before.



The World's Lowest Cost Per Gate, and the Lowest Cost Per I/O

Xilinx, the leader in programmable logic, once again redefines the FPGA. The Spartan-3 FPGA family, built on the success of four previous generations of low-cost Spartan FPGAs, offers a platform with a wide range of I/O and density options. Get fast time to market and low unit cost while avoiding long development time and high NRE cost of ASICs.

• Advanced, Low-Cost Features

- Eight devices ranging from 50K to 5M system gates
- Up to 1.8 Mbits of Block RAM
- From 63 to 784 I/O pins – with package and density migration capability
- Digital clock management – solves high speed design challenges
- Embedded 18x18 multipliers-to support high-performance DSP applications

• Industry-Leading Design Tools and IP

- ISE design tools that shorten design and verification time
- ChipScope Pro system debugging environment
- DSP development tools from The MathWorks and Cadence
- Wide range of soft cores, including PCI and high-speed differential signaling with LVDS
- Forward error correction and high-performance interfaces
- 32-bit MicroBlaze™ and 8-bit PicoBlaze™ soft processors
- IP migration capability from previous-generation Spartan designs

• Lowest Cost Configuration Solution

- Platform Flash PROMS deliver in-system programmable configuration for under \$1 per Mbit

Optimize Cost

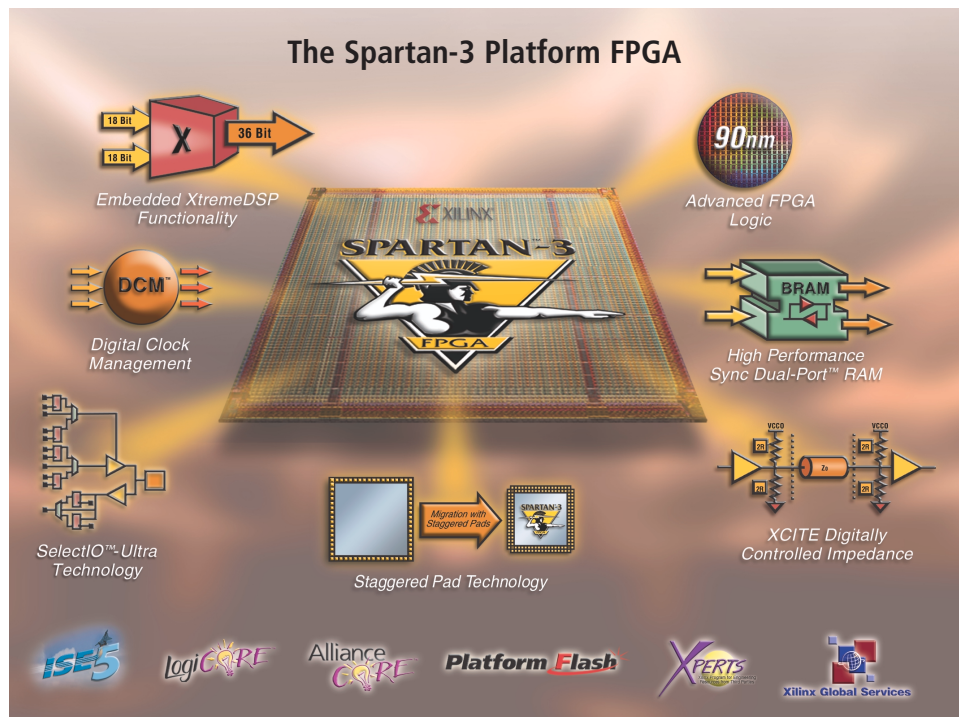
The Spartan-3 family, built on advanced 90 nm technology, is the lowest-cost logic solution for a wide range of applications. Numerous soft processors allow you to increase design integration, while Block RAM and embedded 18x18 multipliers help you create high-performance DSP applications.

Reduce Design Risk

You can take advantage of Xilinx Global Services to get the support you need, when you need it. Services include live and on-line education, telephone hotline support, personalized on-line information, on-site consulting, and Xilinx Design Services.

Maintain Existing IP

The Spartan-3 FPGA family is based on existing Xilinx architectures, you can easily use your existing IP from previous Spartan architectures to help you finish even faster.



Take the Next Step

Visit our website www.xilinx.com/spartan3 for more information or call your local sales office or distributor for a presentation and software demonstration.

The Spartan-3 FPGA Family

| Device | XC3S50 | XC3S200 | XC3S400 | XC3S1000 | XC3S1500 | XC3S2000 | XC3S4000 | XC3S5000 |
|----------------------------|--------|---------|---------|----------|----------|----------|----------|----------|
| System Gates | 50K | 200K | 400K | 1000K | 1500K | 2000K | 4000K | 5000K |
| Logic Cells | 1,728 | 4,320 | 8,064 | 17,280 | 29,952 | 46,080 | 62,208 | 74,880 |
| 18 x 18 Multipliers | 4 | 12 | 16 | 24 | 32 | 40 | 96 | 104 |
| Block RAM Blocks | 4 | 12 | 16 | 24 | 32 | 40 | 96 | 104 |
| Block RAM Bits | 72K | 216K | 288K | 432K | 576K | 720K | 1,728K | 1,872K |
| Distributed RAM Bits | 12K | 30K | 56K | 120K | 208K | 320K | 432K | 520K |
| DCMs | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| I/O Standards | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 |
| Max Differential I/O Pairs | 56 | 76 | 116 | 175 | 221 | 270 | 312 | 344 |
| Max Single Ended I/O | 124 | 173 | 264 | 391 | 487 | 565 | 712 | 784 |

Package and I/O Offerings

| | XC3S50 | XC3S200 | XC3S400 | XC3S1000 | XC3S1500 | XC3S2000 | XC3S4000 | XC3S5000 |
|-------------------|--------|---------|---------|----------|----------|----------|----------|----------|
| VQ100 14 X 14 mm | 63 | 63 | | | | | | |
| TQ144 20 X 20 mm | 97 | 97 | 97 | | | | | |
| PQ208 28 X 28 mm | 124 | 141 | 141 | | | | | |
| FT256 17 X 17 mm | | 173 | 173 | 173 | | | | |
| FG456 23 X 23 mm | | | 264 | 333 | 333 | | | |
| FG676 27 X 27 mm | | | | 391 | 487 | 489 | | |
| FG900 31 X 31 mm | | | | | | 565 | 633 | 633 |
| FG1156 35 X 35 mm | | | | | | | 712 | 784 |

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