



Product Data Sheets

- ▶ **Virtex Series**
- ▶ **Spartan Series**
- ▶ **Configuration Solutions**
- ▶ **CoolRunner XPLA3 CPLDs**
- ▶ **XC9500 CPLDs**
- ▶ **Aerospace and Defense Products**
- ▶ **IRL Products ^{NEW!}**
- ▶ **XC4000 Series FPGAs**
- ▶ **XC3000 and XC5200 Series FPGAs**

- ▶ **Virtex Series**

- **Virtex-II 1.5V Platform FPGAs**

Virtex-II: Introduction and Ordering Information  130 KB (v1.7) 10/02/01

Virtex-II: Detailed Functional Description  540 KB (v1.7) 10/02/01

Virtex-II: DC and Switching Characteristics  290 KB (v1.8) 10/02/01

Virtex-II: Pinout Tables  1.33 MB (v1.5) 04/02/01

Virtex-II Platform FPGA Complete Data Sheet (All Four Modules)  2.10 MB 10/02/01

Virtex-II Platform FPGA Handbook

Virtex-II Platform FPGA: More Technical Information

- **Virtex-E Extended Memory 1.8V FPGAs**

Virtex-E Extended Memory: Introduction and Ordering Information  50 KB (v1.4) 04/02/01

Virtex-E Extended Memory: Detailed Functional Description  560 KB (v1.6) 07/23/01

Virtex-E Extended Memory: DC and Switching Characteristics  160 KB (v1.8) 09/18/01

Virtex-E Extended Memory: Pinout Tables  220 KB (v1.5) 07/23/01

Virtex-E Extended Memory: Complete Data Sheet (All Modules)  950 KB 09/18/01

- **Virtex-E 1.8V FPGAs**

Virtex-E: Introduction and Ordering Information  50 KB (v2.0) 04/02/01

Virtex-E: Detailed Functional Description  575 KB (v2.2) 07/23/01

Virtex-E: DC and Switching Characteristics  180 KB (v2.4) 09/18/01

Virtex-E: Pinout Tables  50 KB (v2.1) 07/26/01

Virtex-E: Complete Data Sheet (All Modules)  1.5 MB 09/18/01

Virtex-E: Pinouts for Packages Text Files

- **Virtex 2.5V FPGAs**

Virtex: Introduction and Ordering Information  40 KB (v2.5) 04/02/01

Virtex: Detailed Functional Description  215 KB (v2.6) 07/23/01

Virtex: DC and Switching Characteristics  155 KB (v2.85) 07/26/01

Virtex: Pinout Tables  165 KB (v2.75) 07/26/01

Virtex: Complete Data Sheet (All Modules)

▶ Spartan Series

— Spartan-II 2.5V FPGAs

Spartan-II: Introduction and Ordering Information  40 KB (v2.2) 03/05/01

Spartan-II: Detailed Functional Description  460 KB (v2.1) 03/05/01

Spartan-II: DC and Switching Characteristics  150 KB (v2.4) 08/28/01

Spartan-II: Pinout Tables  40 KB (v2.4) 04/30/01

Spartan-II: Pinout Tables in Excel (.zip file)

— Spartan 5V and Spartan-XL 3.3V FPGAs

Spartan/XL: Complete Data Sheet  860 KB (v1.6) 09/19/00



▶ Configuration Solutions

— System ACE

System ACE CompactFlash Solution  85 KB (v1.0) 05/18/01

System ACE SC Solution  350 KB (v1.0) 09/25/01 **NEW!**

System ACE MPM Solution  295 KB (v1.0) 09/25/01 **NEW!**

— Configuration PROMs

XC18V00 Series of In-System Programmable Configuration PROMs  159 KB (v2.8) 06/11/01

XC17V00 Series Configuration PROMs  130 KB (v1.4) 04/04/01

XC1700E and XC1700L Series Configuration PROMs  125 KB (v3.1) 07/05/00

Spartan-II Family of PROMs  75 KB (v1.3) 06/20/01

Spartan/XL Family of PROMs  275 KB (v1.7) 04/07/01

— Programming Solutions

HW-130 Programmer  405 KB (v1.5) 01/13/001



▶ CPLD Products

— CoolRunner XPLA3 CPLDs

CoolRunner XPLA3 CPLD Family  113 KB (v1.4) 04/11/01

XCR3512XL: 512 Macrocell CPLD  108 KB (v1.2) 09/04/01

XCR3384XL: 384 Macrocell CPLD  101 KB (v1.3) 08/10/01

XCR3256XL: 256 Macrocell CPLD  93 KB (v1.84) 04/19/01

XCR3128XL: 128 Macrocell CPLD  86 KB (v1.7) 08/10/01

XCR3064XL: 64 Macrocell CPLD  77 KB (v1.5) 04/19/01

XCR3032XL: 32 Macrocell CPLD  78 KB (v1.4) 08/10/01

— XC9500XV 2.5V ISP CPLDs

XC9500XV: 2.5V ISP CPLD Family  190 KB (v2.0) 01/15/01

XC95288XV: 2.5V ISP CPLD Family  100 KB (v2.2) 08/27/01

XC95144XV: 2.5V ISP CPLD Family  80 KB (v2.2) 08/27/01

XC9572XV: 2.5V ISP CPLD Family  70 KB (v2.2) 08/27/01

XC9536XV: 2.5V ISP CPLD Family  70 KB (v2.2) 08/27/01

— XC9500XL 3.3V ISP CPLDs

XC9500XL: 3.3V ISP CPLD Family  140 KB (v1.5) 06/07/99








XC95288XL: 3.3V ISP CPLD Family  70 KB (v1.4) 03/19/01

XC95144XL: 3.3V ISP CPLD Family  80 KB (v1.2) 11/13/98

XC9572XL: 3.3V ISP CPLD Family  140 KB (v1.1) 08/28/00








XC9536XL: 3.3V ISP CPLD Family  140 KB (v1.1) 08/28/00

— XC9500 5V ISP CPLDs

XC9500: 5V ISP CPLD Family  130 KB (v5.0) 09/15/99
XC95288: 5V ISP CPLD Family  70 KB (v4.0) 09/15/99
XC95216: 5V ISP CPLD Family  80 KB (v3.1) 08/21/01
XC95144: 5V ISP CPLD Family  70 KB (v4.0) 12/04/98
XC95108: 5V ISP CPLD Family  70 KB (v3.0) 12/04/98
XC9572: 5V ISP CPLD Family  60 KB (v3.0) 12/04/98
XC9536: 5V ISP CPLD Family  60 KB (v5.0) 12/04/98



▶ QPro QML Certified and Radiation Hardened Products

QPro Virtex 2.5V QML High-Reliability FPGAs  288 KB (v1.2) 02/13/01
QPro Virtex 2.5V Radiation Hardened FPGAs  182 KB (v1.1) 02/13/01
QPro XC4000E/EX High-Reliability FPGAs  305 KB (v2.2) 06/25/00
QPro XC4000XL Radiation Hardened FPGAs  171 KB (v1.3) 06/25/00
QPro XQ/XQR18V04 QML Programmable Configuration PROMs  170 KB (v1.1) 07/27/01
QPro Family Configuration PROMs (XQ and XQR)  90 KB (v3.0) 02/08/00
QPro Family of XC1700D QML Serial Configuration PROMs  90 KB (v2.1) 06/07/00



▶ IRL Technology for Field Upgradability

PAVE Framework for IRL Applications  63 KB (v1.0) 09/17/01 **NEW!**
PAVE Framework for IRL Applications: User Guide  (v1.0) 09/17/01 **NEW!**






▶ XC4000 Series FPGAs






— XC4000XV FPGAs

XC4000XV: Description  80 KB (v1.2) 05/01/99
XC4000XV: Electrical Characteristics  143 KB (v1.3) 10/01/99
XC4000XV: Pinout Tables  200 KB (v1.2) 05/01/99

— XC4000XLA FPGAs



XC4000XLA: Description  80 KB (v1.2) 05/01/99
XC4000XLA: Electrical Characteristics  90 KB (v1.3) 10/01/99
XC4000XLA: Pinout Tables  170 KB (v1.4) 06/01/01

— XC4000 FPGAs

XC4000E/EX FPGAs: Description  710 KB (v1.6) 05/01/99
XC4000XL FPGAs: Electrical Characteristics  80 KB (v1.7) 10/01/99
XC4000EX FPGAs: Electrical Characteristics  80 KB (v1.7) 10/01/99
XC4000E FPGAs: Electrical Characteristics  90 KB (v1.6) 05/01/99
XC4000E/X FPGAs: Pinout Tables  300 KB (v1.7) 10/01/99



▶ XC3000 and XC5200 Series FPGAs

XC3000 FPGAs - (XC3000A/L, XC3100A/L)  730 KB (v3.1) 11/01/98
XC5200 FPGAs  600 KB (v5.2) 11/01/98