

June 1, 1996 (Version 1.0)

Xilinx is the world's leading supplier of High-Reliability Programmable Logic Devices (Hi-REL PLDs) to the aerospace, military, defense electronics, and related markets. These devices are being used in a wide variety of programs, including applications such as electronic warfare, missile guidance and targeting, RADAR/SONAR, communications, signal processing, aerospace and avionics.

Unmatched Hi-Rel Product Offering

Xilinx offers a wide variety of devices, delivering the fastest and biggest Hi-Rel devices available. Products with up to 25,000 gates are available today, with even higher densities to come. Xilinx offers multiple product families to allow you to select the right device to meet your design requirements.

This broad range of devices is available in a wide variety of speed and package options. Both military temperature range and full MIL-STD-883B/SMD versions are available as standard, off-the-shelf products, in through-hole and surface mount packages.

Committed to the Hi-Rel Market

Xilinx understands that you need to be able to count on your Hi-Rel supplier. Xilinx is committed to our customers, and we are expanding our Hi-Rel support and product portfolio. The unique capabilities of the Xilinx FPGA solution provide increased design flexibility, field-upgradability and system feature integration, while eliminating the NREs, lead-time and inventory problems of custom logic and gate arrays. Now more than ever, Xilinx is your Hi-Rel logic solution.

Xilinx Hi-Rel Products

Table 1 summarizes Xilinx high density and high performance product offerings. The following pages contain a complete listing of current Xilinx SMD (Standard Microcircuit Drawings) devices and "B" grade equivalents. Architectural descriptions for these FPGA products can be found in Chapter 4. For additional information, including Data Sheets on Hi-Rel devices, contact the nearest Xilinx Sales Office or Sales Representative.

Table 1: High Density and High Performance Products

Family	Devices	Features
XC4000/E	XC4003A	Highest Density/Most Features Family <ul style="list-style-type: none">• 3,000-25,000+ gates• Up to 256 user-definable I/Os• Extensive system features include on-chip user RAM, built-in 1149.1 test support and fast carry logic
	XC4005/E	
	XC4010/E	
	XC4013/E	
	XC4025E	
XC3100A	XC3142A	Highest Performance Family <ul style="list-style-type: none">• 2,500-7,500 gates• Up to 144 user-definable I/Os
	XC3190A	
	XC3195A	

Table 2: Xilinx SMD (Standard Microcircuit Drawing)

XC1700 Products

SMD Number	Equivalent "B" Grade P/N	Speed	Package	Mark Loc
5962-9471701MPA	XC1765DDD8B		DD8	TOP
5962-9561701MPA	XC17256DDD8B		DD8	TOP

XC2000 Products

SMD Number	Equivalent "B" Grade P/N	Speed	Package	Mark Loc
5962-8863801XC	XC2018-33PG84B	-33	PG84	TOP
5962-8863802XC	XC2018-50PG84B	-50	PG84	TOP
5962-8863803XC	XC2018-70PG84B	-70	PG84	TOP
5962-8863804XC	XC2018-100PG84B	-100	PG84	TOP

XC3000 Products

SMD Number	Equivalent "B" Grade P/N	Speed	Package	Mark Loc
5962-8994801MXC	XC3020-50PG84B	-50	PG84	TOP
5962-8994802MXC	XC3020-70PG84B	-70	PG84	TOP
5962-8994803MXC	XC3020-100PG84B	-100	PG84	TOP
5962-8994801MNC	XC3020-50CB100B	-50	CB100	BASE
5962-8994802MNC	XC3020-70CB100B	-70	CB100	BASE
5962-8994803MNC	XC3020-100CB100B	-100	CB100	BASE
5962-8994801MMC		-50	CB100	LID
5962-8994802MMC		-70	CB100	LID
5962-8994803MMC		-100	CB100	LID
5962-8994801MYA*	XC3020-50CQ100B	-50	CQ100	BASE
5962-8994802MYA*	XC3020-70CQ100B	-70	CQ100	BASE
5962-8994803MYA*	XC3020-100CQ100B	-100	CQ100	BASE
5962-8994801MTA*		-50	CQ100	LID
5962-8994802MTA*		-70	CQ100	LID
5962-8994803MTA*		-100	CQ100	LID

* Do Not Use for New Designs (package to be obsoleted). Use "CB" Package Instead.

XC3000 Products (continued)

SMD Number	Equivalent "B" Grade P/N	Speed	Package	Mark Loc
5962-8971301MXC	XC3042-50PG84B	-50	PG84	TOP
5962-8971302MXC	XC3042-70PG84B	-70	PG84	TOP
5962-8971303MXC	XC3042-100PG84B	-100	PG84	TOP
5962-8971301MZC	XC3042-50PG132B	-50	PG132	TOP
5962-8971302MZC	XC3042-70PG132B	-70	PG132	TOP
5962-8971303MZC	XC3042-100PG132B	-100	PG132	TOP
5962-8971301M9C	XC3042-50CB100B	-50	CB100	BASE
5962-8971302M9C	XC3042-70CB100B	-70	CB100	BASE
5962-8971303M9C	XC3042-100CB100B	-100	CB100	BASE
5962-8971301MMC		-50	CB100	LID
5962-8971302MMC		-70	CB100	LID
5962-8971303MMC		-100	CB100	LID
5962-8971301MYA*	XC3042-50CQ100B	-50	CQ100	BASE
5962-8971302MYA*	XC3042-70CQ100B	-70	CQ100	BASE
5962-8971303MYA*	XC3042-100CQ100B	-100	CQ100	BASE
5962-8971301MNA*		-50	CQ100	LID
5962-8971302MNA*		-70	CQ100	LID
5962-8971303MNA*		-100	CQ100	LID

* Do Not Use for New Designs (package to be obsoleted). Use "CB" Package Instead.

SMD Number	Equivalent "B" Grade P/N	Speed	Package	Mark Loc
5962-8982301MXC	XC3090-50PG175B	-50	PG175	TOP
5962-8982302MXC	XC3090-70PG175B	-70	PG175	TOP
5962-8982303MXC	XC3090-100PG175B	-100	PG175	TOP
5962-8982301MZC	XC3090-50PG164B	-50	CB164	BASE
5962-8982302MZC	XC3090-70PG164B	-70	CB164	BASE
5962-8982303MZC	XC3090-100PG164B	-100	CB164	BASE
5962-8982301MTC		-50	CB164	LID
5962-8982302MTC		-70	CB164	LID
5962-8982303MTC		-100	CB164	LID
5962-8982301MYA*	XC3090-50CQ164B	-50	CQ164	BASE
5962-8982302MYA*	XC3090-70CQ164B	-70	CQ164	BASE
5962-8982303MYA*	XC3090-100CQ164B	-100	CQ164	BASE
5962-8982301MUA*		-50	CQ164	LID
5962-8982302MUA*		-70	CQ164	LID
5962-8982303MUA*		-100	CQ164	LID

* Package OBSOLETE. Use "CB" Package Instead.

XC3100A Products

SMD Number	Equivalent “B” Grade P/N	Speed	Package	Mark Loc
5962-9561001MXC	XC3142A-5PG84B	-5	PG84	TOP
5962-9561002MXC	XC3142A-4PG84B	-4	PG84	TOP
5962-9561001MUC	XC3142A-5PG132B	-5	PG132	TOP
5962-9561002MUC	XC3142A-4PG132B	-4	PG132	TOP
5962-9561001MYC	XC3142A-5CB100B	-5	CB100	BASE
5962-9561002MYC	XC3142A-4CB100B	-4	CB100	BASE
5962-9561001MZC		-5	CB100	LID
5962-9561002MZC		-4	CB100	LID
5962-9561101MXC	XC3190A-5PG175B	-5	PG175	TOP
5962-9561102MXC	XC3190A-4PG175B	-4	PG175	TOP
5962-9561101MYC	XC3190A-5CB164B	-5	CB164	BASE
5962-9561102MYC	XC3190A-4CB164B	-4	CB164	BASE
5962-9561101MZC		-5	CB164	LID
5962-9561102MZC		-4	CB164	LID
5962-9561201MXC	XC3195A-5PG175B	-5	PG175	TOP
5962-9561202MXC	XC3195A-4PG175B	-4	PG175	TOP
5962-9561201MYC	XC3195A-5CB164B	-5	CB164	BASE
5962-9561202MYC	XC3195A-4CB164B	-4	CB164	BASE
5962-9561201MZC		-5	CB164	LID
5962-9561202MZC		-4	CB164	LID

XC4000 Products

SMD Number	Equivalent “B” Grade P/N	Speed	Package	Mark Loc
5962-9471201MXC	XC4003A-10PG120B	-10	PG120	TOP
5962-9471202MXC	XC4003A-6PG120B	-6	PG120	TOP
5962-9471201MYC	XC4003A-10CB100B	-10	CB100	BASE
5962-9471202MYC	XC4003A-6CB100B	-6	CB100	BASE
5962-9471201MZC		-10	CB100	LID
5962-9471202MZC		-6	CB100	LID
5962-9225201MXC	XC4005-10PG156B	-10	PG156	TOP
5962-9225202MXC	XC4005-6PG156B	-6	PG156	TOP
5962-9225203MXC	XC4005-5PG156B	-5	PG156	TOP
5962-9225201MYC		-10	CB164	LID
5962-9225202MYC		-6	CB164	LID
5962-9225203MYC		-5	CB164	LID
5962-9225201MZC	XC4005-10CB164B	-10	CB164	BASE
5962-9225202MZC	XC4005-6CB164B	-6	CB164	BASE
5962-9225203MZC	XC4005-5CB164B	-5	CB164	BASE

XC4000 Products (continued)

SMD Number	Equivalent "B" Grade P/N	Speed	Package	Mark Loc
5962-9230501MXC	XC4010-10PG191B	-10	PG191	TOP
5962-9230502MXC	XC4010-6PG191B	-6	PG191	TOP
5962-9230503MXC	XC4010-5PG191B	-5	PG191	TOP
5962-9230501MYC	XC4010-10CB196B	-10	CB196	BASE
5962-9230502MYC	XC4010-6CB196B	-6	CB196	BASE
5962-9230503MYC	XC4010-5CB196B	-5	CB196	BASE
5962-9230501MZC		-10	CB196	LID
5962-9230502MZC		-6	CB196	LID
5962-9230503MZC		-5	CB196	LID
5962-9473001MXC	XC4013-10PG223B	-10	PG223	TOP
5962-9473002MXC	XC4013-6PG223B	-6	PG223	TOP
5962-9473001MYC	XC4013-10CB228B	-10	CB228	BASE
5962-9473002MYC	XC4013-6CB228B	-6	CB228	BASE
5962-9473001MZC		-10	CB228	LID
5962-9473002MZC		-6	CB228	LID

