

XC4000 Hi-Rel Product Family

Extended with Faster Speed Grades and New Packaging

Xilinx's ongoing commitment to high-reliability defense and aerospace applications continues. New hi-rel products that have been qualified recently include higher-performance versions of the XC4005 and XC4010 FPGAs and a new surface-mount package for the XC4013 FPGA.

With the introduction of hi-rel versions of the XC4005-5 and XC4010-5 products, the hi-rel XC4000 family has reached new performance levels, expanding the range of applications that can be addressed by these full-featured FPGAs. Both of these new devices are available in ceramic pin grid array (PG) and surface-mount ceramic quad flat pack (CB) packages.

The XC4013 FPGA is now available in a hi-rel surface-mount package, the CB228, a 228-pin ceramic quad flat pack. This package features a non-conductive tie-bar that improves handling and eliminates bent leads during test and shipment. Hi-rel versions of the XC4013 are available in both the -10 and -6 speed grades.

These new products are now fully-qualified in M grade, B grade, and SMD versions (see table). Like all the XC4000 family members, they include the powerful features, such as built-in JTAG test circuitry, on-chip RAM, fast carry logic, and wide edge decoders, that have made the XC4000 the world's most-used FPGA family. ♦

Hi-Rel Part Number Matrix (New Products)

XILINX PART NUMBER	SMD PART NUMBER	COMMENTS
XC4005-5PG156M	N/A	Pin Grid Array
XC4005-5PG156B	5962-9225203MXC	Pin Grid Array
XC4005-5CB164M	N/A	Quad flat pack with base mark
XC4005-5CB164B	5962-9225203MZC 5962-9225203MYC	Quad flat pack with base mark Quad flat pack with lid mark
XC4010-5PG191M	N/A	Pin Grid Array
XC4010-5PG191B	5962-9230503MXC	Pin Grid Array
XC4010-5CB196M	N/A	Quad flat pack with base mark
XC4010-5CB196B	5962-9230503MYC 5962-9230503MZC	Quad flat pack with base mark Quad flat pack with lid mark
XC4013-10CB228M	N/A	Quad flat pack with base mark
XC4013-6CB228M	N/A	Quad flat pack with base mark
XC4013-10CB228B	5962-9473001MYC 5962-9473001MZC	Quad flat pack with base mark Quad flat pack with lid mark
XC4013-6CB228B	5962-9473002MYC 5962-9473002MZC	Quad flat pack with base mark Quad flat pack with lid mark

Thank You

To the participants of the 3.3V Fax-Back Survey (XCELL #17, page 31):

Thank you very much for your participation. We had many responses from all over the world. We are especially appreciative of the responses from outside the United States. We will use the data to continue providing you with leading-edge low-voltage logic solutions.

Leo Laperriere of CAE Electronics in Canada was the winner in the drawing for the Sony Watchman. Congratulations Leo! ♦



Leo Laperriere