

Xilinx Unveils New “QPRO” Products

For aerospace, defense, and high reliability markets

Xilinx recently announced the new QPRO line of QML-certified programmable logic devices designed to meet the evolving requirements of the aerospace and defense markets, supporting a procurement trend toward products built using the best commercial practices. Xilinx is one of only 20 semiconductor suppliers in the world to receive Qualified Manufacturer Listing, or QML.

As a QML supplier, Xilinx can quickly introduce state-of-the-art, military-grade products because our world-class processes and materials have been qualified in advance, eliminating the need to qualify individual products or production lots. Xilinx can now offer the latest, highest-performance products to both commercial and military-aerospace customers, at the same time; the usual 12-to-18 month delay for military qualification is eliminated.

QPRO FPGAs are guaranteed to operate in extended temperature and rugged environments. For example, N-grade plastic and M-grade ceramic packages are rated for operating environments ranging from

-55°C to +125°C. Packaging options include thermally enhanced plastic quad flat packs and ball grid arrays as well as hermetic pin grid arrays and top-brazed ceramic quad flat packs.

The QPRO solutions include the Xilinx XQ4000X FPGAs, which are available as military temperature range ceramic and plastic encapsulated devices that deliver densities up to 130,000 system gates. The QPRO line is also supported by the Xilinx Foundation Series and Alliance Series software, and a variety of verified software cores that can be used to create system-level functions such as standard bus interfaces.

“Our new QPRO offerings continue a commitment by Xilinx to serve the changing needs of these specialized markets, and they cap our recent efforts of winning full QML status,” said Rick Padovani, director of the Xilinx aerospace and defense business. “Xilinx is leading the logic industry in delivering off-the-shelf, commercial products that are cost-effective and meet the exacting standards of performance and reliability in rugged environments that our aerospace and defense customers demand. Moreover, Xilinx provides reliability of supply and a superior alternative to traditional ASICs for customers designing new systems or upgrading older equipment.”

Xilinx has been serving the military and aerospace market for more than a decade and provides customers with continuity of supply, specialized products, and guaranteed mask and process controls that are unmatched by any other programmable logic manufacturer. The QPRO brand name reflects the Xilinx commitment to QML, Performance, Reliability of supply, and Off-the-shelf products. ♦

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