



QPRO™ QML Certified FPGAs

Xilinx is the leading supplier of High-Reliability programmable logic devices to the aerospace and defense markets.

These devices are used in a wide range of applications such as electronic warfare, missile guidance and targeting, RADAR, SONAR, communications, signal processing, avionics, and satellites. The Xilinx QPRO family of ceramic and plastic QML products (Qualified Manufacturers Listing), certified to MIL-PRF-38585, provide you with advanced programmable logic solutions for next generation designs, and include select products that are radiation hardened for use in satellite and other space applications.

The Xilinx QPRO family addresses the issues that are critical to the aerospace and defense market:

- **QML/Best commercial practices.** Commercial manufacturing strengths result in more efficient process flows.
- **Performance-based solutions,** including cost-effective plastic packages.
- **Reliability of supply.** Controlled mask sets and processes insure the same quality devices, every time, without variation, which remain

in production for an extended time.

- **Off-the-shelf ASIC solutions.** Standard devices readily available, no need for custom logic and gate arrays.

Being certified to MIL-PRF-35835 QML, complemented by ISO-9000 certification, results in an overall product quality platform that makes Xilinx a world-class supplier of programmable logic devices. You can confidently design with Xilinx for High-Reliability systems with the assurance that you are getting unsurpassed quality and reliability, and a long-term commitment to the aerospace and defense market. **Σ**

See www.xilinx.com/products/hirel_qml.htm for more information.

QPRO QML-Certified PROMs					
Device	Density	Package			
		DD8	SO20	CC44	PC44
XC1736D	36Kb	X			
XC1765D	64Kb	X			
XC17128D	128Kb	X			
XC17256D	256Kb	X			
XQR/XQ 1701L*	1Mb		X	X	
XQR/XQ 1704L*	4Mb			X	X**

* XQR devices are Radiation Hardened.

** XQ devices only.

FPGA Product Selection Matrix															
FPGA Product Selection Matrix	KEY FEATURES	DENSITY							FEATURES						
		Logic Cells	Maximum Logic Gates	Typical System Gate Range	Max. RAM Bits	CLB Matrix	CLBs	Flip-Flops	Max. I/O	Output Drive (mA)	PCI Compliant	1.8 Volt	2.5 Volt	3 Volt	5 Volt
DEVICES	KEY FEATURES														
XQ4013XL	XC4000 Series: Density Leadership/ High Performance/ SelectRAM Memory	1368	13K	10K-30K	18K	24x24	576	1536	192	12/24	Y	-	-	X	*
XQ4036XL		3078	36K	22K-65K	42K	36x36	1296	3168	288	12/24	Y	-	-	X	*
XQ4062XL		5472	62K	40K-130K	74K	48x48	2304	5376	384	12/24	Y	-	-	X	*
XQ4085XL		7448	85K	55K-180K	100K	56x56	3136	7168	448	12/24	Y	-	-	X	*
XQV100	Virtex Family: Density/ Performance Leadership/ BlockRAM Distributed RAM Select/I/O 4 DLLs	2700	32K	72K-109K	78K	20x30	600	2400	180	2/24	Y	-	X	I/O	*
**XQVR/XQV300		6912	83K	176K-323K	160K	32x48	1536	6144	316	2/24	Y	-	X	I/O	*
**XQVR/XQV600		15552	187K	365K-661K	312K	48x72	3456	13824	512	2/24	Y	-	X	I/O	*
**XQVR/XQV1000		27648	332K	622K-1,124K	512K	64x96	6144	24576	512	2/24	Y	-	X	I/O	*

* I/Os are tolerant
 ** XQR and XQVR devices are Radiation Hardened
 X = Core and I/O voltage
 I/Os = I/O voltage supported