




Redefining the FPGA

*Off-the-Shelf ASIC performance for
Aerospace and Defense Application*

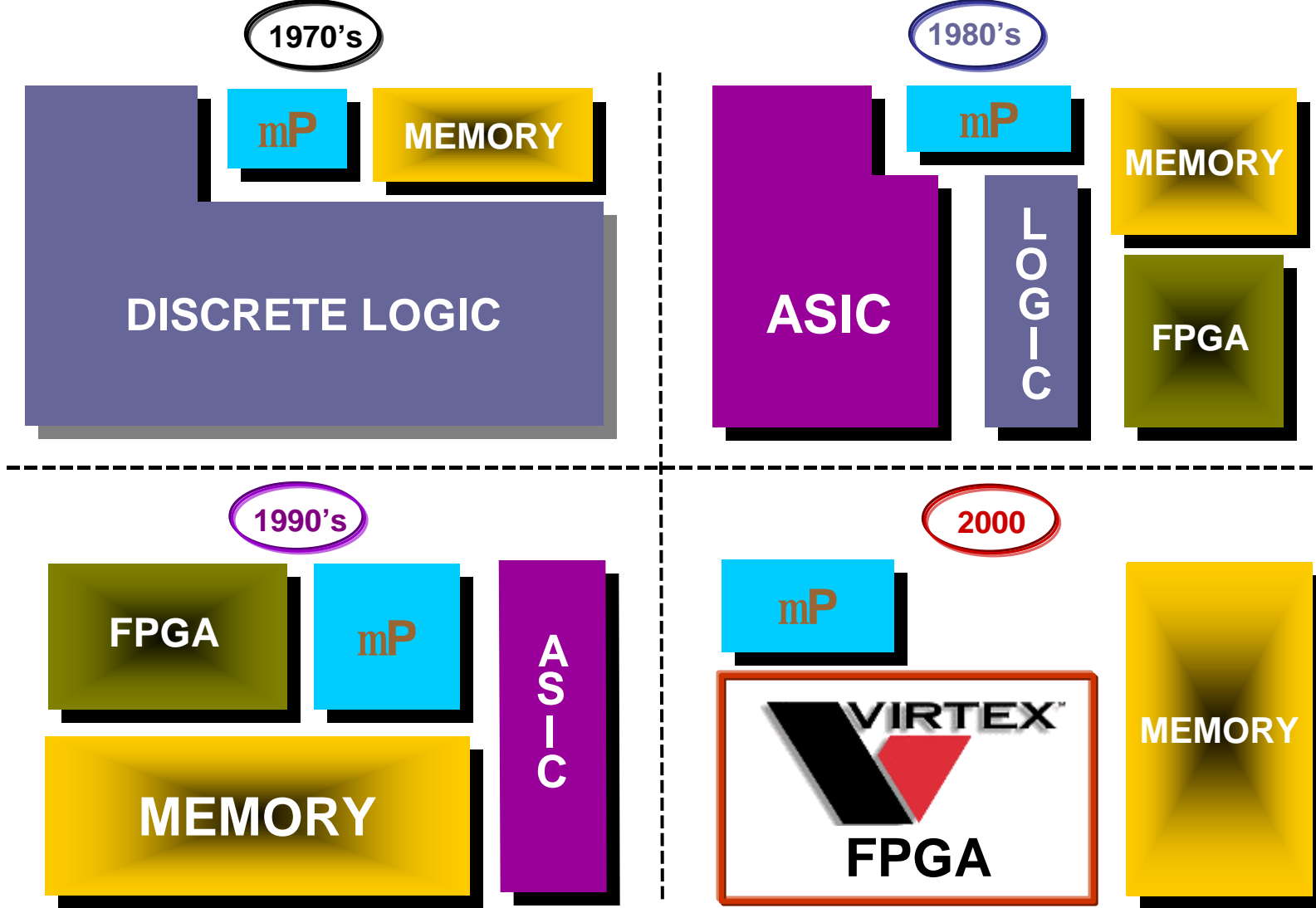
Xilinx for Aerospace and Defense

- ◆ Standard, Off-the-Shelf components consistent with the COTS trend and Perry Initiative
- ◆  Quantum Leap in FPGA Performance and Density
 - *System-level integration previously attainable only with semi-custom ASICs*
- ◆ Hi-Rel products range from commercial to military temperature grades, plastic or ceramic, QML, Rad Tolerant
- ◆ Effective solution for DMS issues and long term supply management

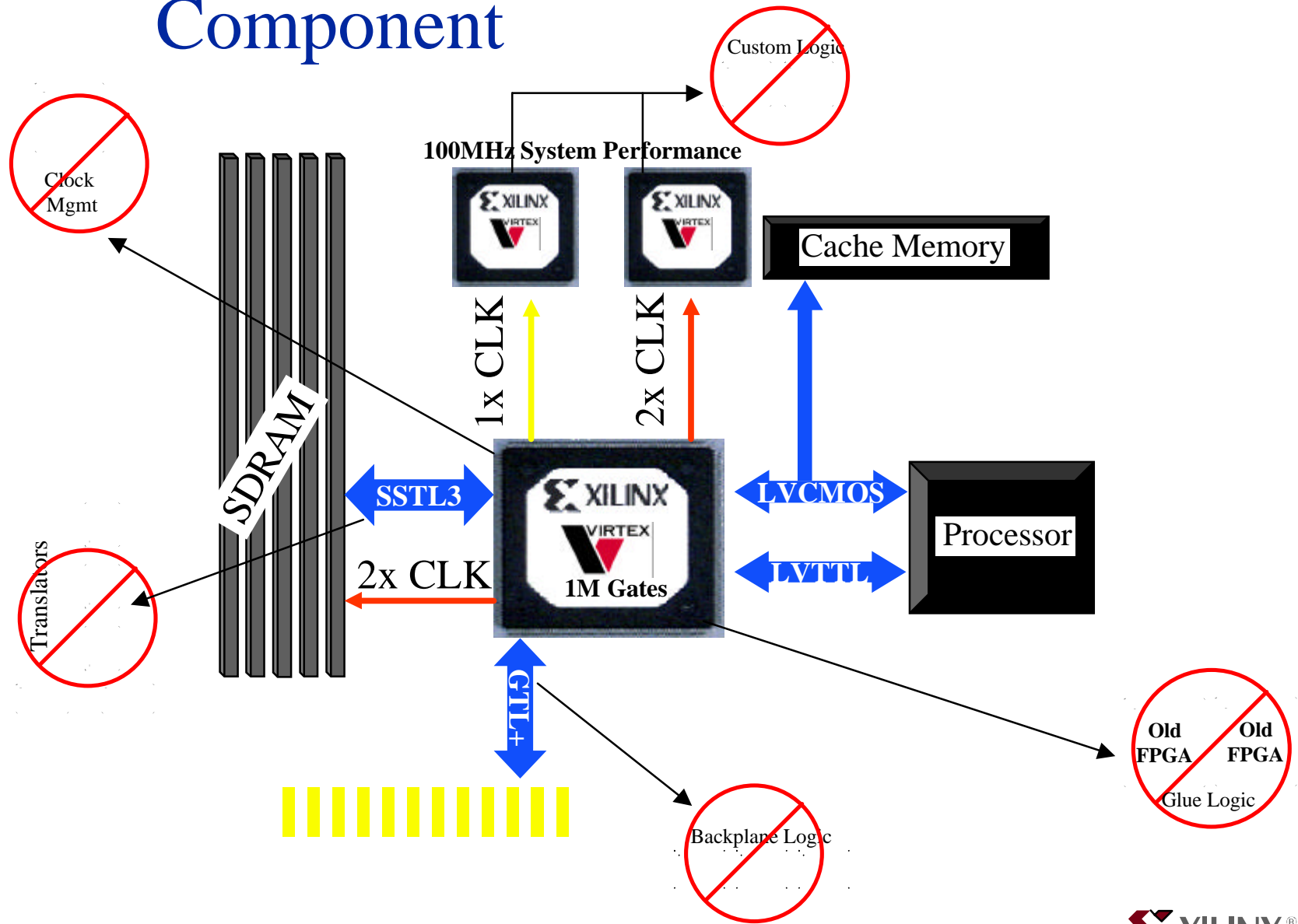
All Xilinx Devices are “COTS”

- ◆ FPGAs are standard products
 - Catalog items available from distributors
 - User programmed to fit the application
 - No special specifications or processing requirements
 - Can be used for multiple applications and programs
 - No NRE or minimum order requirements
 - Available from commercial grade up to QML Class Q SMDs

DESIGN EVOLUTION USING FPGA'S



Virtex as a System Component



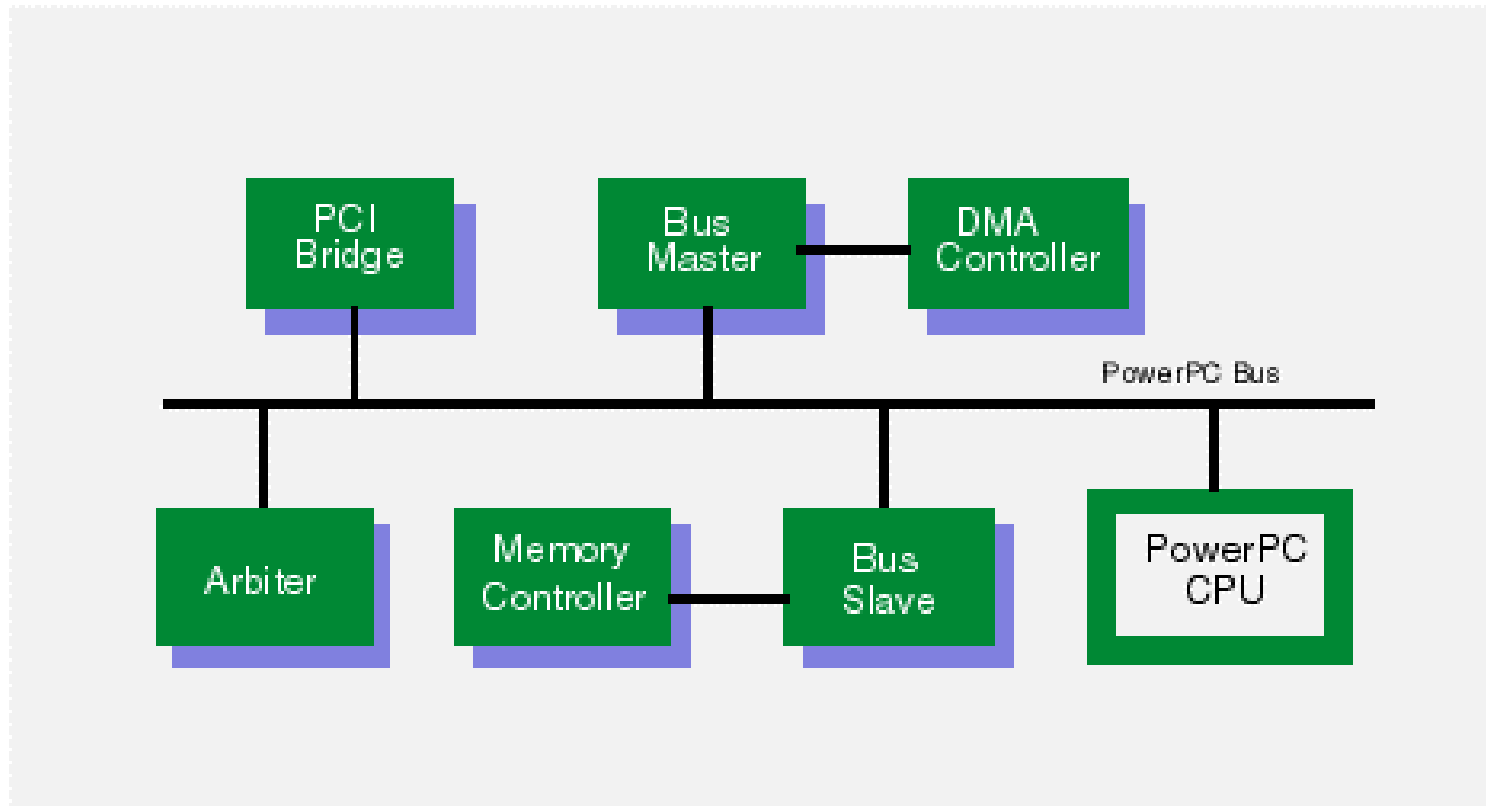


Product Offering

<u>Device</u>	<u>System Gates</u>	<u>Packages</u>
XQV100	100,000	PQ240, BG256, CB228
XQV300	300,000	PQ240, BG352, BG432, CB228
XQV600	600,000	HQ240, BG432, CB228
XQV1000	1,000,000	BG560, CG560



PowerPC Application Example



Eureka Technology



DMS and Supply Management Solution

- ◆ Consolidation smaller ICs or obsolete parts can be integrated into Virtex FPGAs
 - Discrete logic, semi-custom ASICs, processors, memories, interface chips, etc.
- ◆ Specific mask set characterization
 - Ensures consistent product “pedigree” and performance
- ◆ Extended product lifecycles
 - Requires fewer system re-designs due to standard product and Xilinx process migration strategy



Summary

- ◆ Virtex provides unsurpassed flexibility as a replacement for ASICs
 - System level integration and performance
 - Reconfigurability allows for field upgrades
 - Wide range of operating temperatures and grades

- ◆ Virtex addresses the COTS issue
 - Standard products that are DMS friendly
 - Solves critical supply management problems
 - Long term commitment to serving the market
 - State-of-the-art technology