

## Tundra Semiconductor

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### RapidIO Switches

Tsi578™, Tsi576™, Tsi574™, and Tsi620™ Serial RapidIO® Switches set industry benchmarks for high performance and low power consumption. Providing up to 80 Gbps aggregate bandwidth, the Tsi57x family enables customers to develop high performance systems for DSP processor and FPGA interconnect, with the Tsi578 as an ideal solution for backplanes. The Tsi620 provides the functionality of both a RapidIO Switch and of a non-transparent RapidIO-to-PCI Bridge. The Switch offers 50 Gbps aggregate bandwidth, while the Bridge enables legacy systems to link to the high-bandwidth RapidIO interconnect. The Tsi620 contains all the benefits of Tundra's RapidIO Switch family, adding interfaces to PCI-enabled processors, and interface to non-SerDes low-cost FPGAs.



### FEATURES

- ✦ Superior real time image processing resolution, size, and frames per second in military and medical applications
- ✦ Best in class switch for backplane and processor aggregation with 80 Gbps of pure non-blocking bandwidth
- ✦ Lowest power dissipation (120-200 mW per port), identical for long and short reach links
- ✦ Tsi57x family supports IEEE 1149.6 JTAG testing
- ✦ Highest signal integrity solution with tools to program pre-emphasis and equalization
- ✦ Tsi620 offers RapidIO to PCI bridging and RapidIO to XGMII to non-SerDes FPGAs to lower system cost

