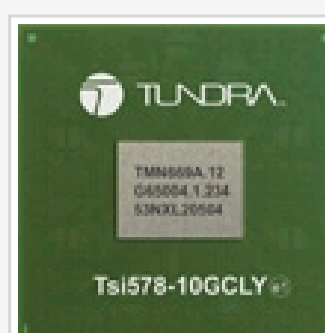




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Technical Specifications

Serial RapidIO Interfaces:

- ? 80 Gbits/s aggregate bandwidth
- ? RapidIO Interconnect Specification (Revision 1.3) compliant
- ? Low latency with cut - through capability
- ? Port flexibility fulfills multiple I/O bandwidth requirements:
 - ? Up to eight 4x mode ports or sixteen 1x mode ports
 - ? Port frequency configuration to 1.25, 2.5, and 3.125 Gbits/s
 - ? Support for mixed speed and width configurations
- ? Low Power
 - ? Programmable SerDes
 - ? Configurable on Port width and speed
 - ? Port Power Down
 - ? Further Power Savings from Tsi568A
- ? High performance hardware multicast provides instantaneous packet replication on any number of ports
- ? Error management extensions
 - ? Proactive issue notification of endpoints connected to switch
- ? Integrated high - speed, full - duplex SerDes with 8b/10b encoding
 - ? Receiver equalization, transmit pre - emphasis, transmit voltage swing
 - ? IEEE 1149.6 AC JTAG support
 - ? Lane swap to ease signal layout routing
- ? Full duplex, line rate termination, non - blocking fabric
 - ? First Come First Served, SP1 and SP2 scheduling algorithms , supporting traffic shaping per ingress port based on board and system level traffic models
 - ? Performance monitoring on individual ports
 - ? Programmable buffer management to ensure dedicated bandwidth for high priority packets
 - ? Provisions to eliminate low priority packet starvation
 - ? Low Latency through packet cut - through
 - ? Prevention of head - of - line blocking
- ? Supports packet routing tables for 64,000 endpoints
- ? Multicast Event Control System
- ? Other Device Capabilities
 - ? I²C Interface
 - ? Master and Slave
 - ? Configuration through register initialization
 - ? Hot Swappable Ports
 - ? Enables use in field replaceable blade applications
 - ? 27x27mm package

Block Diagram

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Product Ordering Information

Part Number	Temp	Pkg	Pin
Tsi578 - 10GCL	Commercial	FCBGA	675
Tsi578 - 10GCLY	Commercial	FCBGA (RoHS)	675
Tsi578 - 10GIL	Industrial	FCBGA	675
Tsi578 - 10GILY	Industrial	FCBGA (RoHS)	675

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For information on part availability and pricing, please contact sales@tundra.com

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- â€¢ Design Support Tools
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