SpaceWire Router Technology
Makes ASIC Interfacing Easy

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Why not use PCI?

- Number of pins required:
  - especially when adding redundancy

- Distance between components:
  - PCI has a limited bus length
  - need to put FEIC close to the GNC processor

- Produces a highly-coupled architecture
Why use SpaceWire?

- Fault-tolerant/scalable bandwidth:
  - add extra links where necessary

- Plug & play:
  - arbitrary topology
  - supports long distances between components
  - can put FEIC near camera (far from GNC)

- Produces loosely-coupled architecture