## Summary

- The digital consumer revolution & the Internet are forcing broadband into the home
  - Residential gateways provide broadband access to the home and network the information appliances in the home
    - Broadband access technologies
      - Satellite, ISDN, xDSL & cable modems
    - Home networking technologies
      - HomePNA, HomePlug, Ethernet, 1394, HomeRF, wireless LANs
- OEMs will develop several variations of gateways
  - Broadband access (front) end
    - DSL modem, cable modem, satellite modem based
  - Home networking (back) end
    - HomePNA based, Ethernet based, wireless LAN based



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## Summary

- Spartan-II FPGAs, CoolRunner & 9500 CPLDs enable RGs
  - IP cores + Spartan-II FPGAs provide solutions like ASSPs
    - Embedded solutions : FPGA logic not used from IP can be programmed with other IP cores
      - Example: DCT/IDCT and DES/TDES soft IP in a Spartan-II FPGA can be used in multimedia and imaging applications
      - Increases the value proposition and reduces solution cost
  - Features within the Spartan-II provide system integration
  - Reprogrammability enables time-to-market & flexibility
    - Home networking market is rapidly growing and products need to be rolled out
  - Internet Reconfigurable Logic allows time-in-market as specs in emerging technologies keep evolving





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