Agenda

- Introduction
 - What is HAVi?
 - Advantages
 - Why does the world need HAVi?
- Technology
 - Requirements
 - System Model
 - Control Model
 - Device Classification
 - FAV
 - IAV
 - BAV
 - LAV
 - HAVi Compliance

Xilinx General Products Group

- Software Architecture
- User Interface
 - Level 1
 - Level 2
- Home Network Configuration
- Interoperability
 - Level 1
 - Level2
- IEEE 1394(FireWire)
- Xilinx Value
- Summary



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Advantages of HAVi in Home Networking

- Ensuring interoperability among devices regardless of the manufacturer
- Automatically detection of devices on the network

 Maximize the usage of device resources
- Instant coordination of the functions of various devices
 - Each added appliance to the HAVi network is automatically registered so that other devices know what it is capable of
- Installation of applications and user interface software on each device



HAVi/1394 In Your Home

- Digital broadcasting, the Internet, digitalization of modern homes, entertainment & video appliances are driving demand for 1394-based products
- Supports data transfer rates @ 100, 200, 400 Mbps
- 1394 benefits
 - No need for terminators, device IDs, or elaborate setup
 - 1394 is Hot pluggable
 - 1394 has scaleable architecture
 - May mix 100, 200, and 400 Mbps devices on a bus
 - 1394 has flexible topology
 - Support of daisy chaining and branching without CPU

Summary

- Various HAVi-based products are being developed
 - Residential gateways: DSL, cable, satellite modem
 - Technology bridges: Ethernet-to-HAVi, HAVi-to-HomePNA, HAVi-to-wireless LANs
 - HAVi enabled information appliances: digital TV, DVD player, Internet screen phones, PCs, printers, etc.
- Spartan-II FPGAs, CoolRunner & 9500 CPLDs provide system interconnectivity in HAVi/1394/Firewire based products

