Agenda

- Introduction
 - Push for Home Networking
 - Applications
 - Market Acceptance & Penetration
 - Market Direction
- Technology
 - Powerlines Facts & App.
 - Control Network
 - Power Line Technologies
 - Intellon CEBus
 - CEBus & OSI Model
 - Spread Spectrum Technology

- Echelon LONWork
 - LONTalk Protocol
 - Architecture
- Carrier Sense Multiple
 Access/Collision Detection
- X 10
- Plug in
- Adaptive Networks
 - hybrid token passing media access scheme
- Products
- Xilinx Solutions
- Alliances
- Summary





Summary

- No need for additional new wiring
 - Existing wires can be used as a medium
 - An inexpensive solution
- Multiple availability of power outlets in each room and across homes
 - There are more power outlets than phone jacks in each room
 - In every 6 feet there is a power outlet
- A mature and proven technology for home automation
 - X-10, CEBus, LONWork, Plug-in, and Adoptive Network technologies have being used for many years





Summary

- New powerline controller products promising a faster, more reliable, and more secure delivery of data, voice, and even video applications
 - Some products have the data rate of 10 Mbps and higher
 - New product developments to reach 25 Mbps and higer
 - New technologies have reduced the noise, data attenuation, and security issues
- Spartan-II FPGAs, CoolRunner & 9500 CPLDs provide system interconnectivity in Ethernet based products



