

# 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

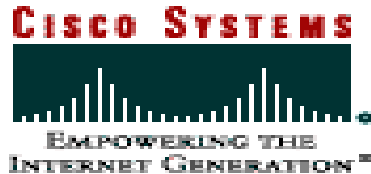
## ◆ Summary

# HomePlug

- ◆ Is a non-profit corporation established to provide a forum for:
  - The creation of specifications for worldwide home powerline networking products and services
  - Accelerating the demand for these products and services through the sponsorship of market and user education programs
- ◆ HomePlug has chosen the Intellon's high-speed powerline networking technology as the baseline upon which to build the alliance's first-generation specification

# HomePlug Members

Xilinx is an adopter member of the HomePlug



[www.xilinx.com](http://www.xilinx.com)



# LonMarks

- ◆ The Association's mission is to enable the easy integration of multi-vendor systems based on LONWorks networks
- ◆ Today over 3,500 companies are using LONWorks control networks
- ◆ The Association has three major functions:
  - Promote benefits of interoperable LonMark products
  - Provide collaborative marketing programs for companies developing LonMark products
  - Provide a forum to define application-specific design requirements.

# LONMarks

- ◆ Xilinx has joined the LONMarks as a participant
- ◆ There are more than 100 system integration companies on the member's list