Title: Reduced Pair Ethernet – Adjacent Markets

Subject: IEEE Reduced Twisted Pair Gigabit Ethernet PHY Study Group

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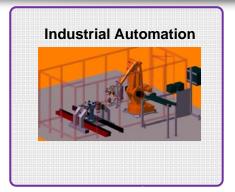
Presentation Overview

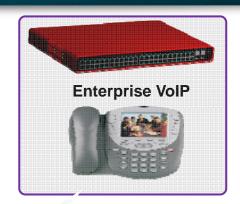


- In the CFI consensus building presentation other market/applications were mentioned in addition to automotive
 - See: http://www.ieee802.org/3/RTPGE/public/mar12/CFI_01_0312.pdf#Page=8 (Page 8)
- This presentation lists potential markets to start the discussion and gauge interest

Potential Applications for Reduced Pair Ethernet









Reduced Pair Ethernet







Potential Applications – Reduced Pair Ethernet



MTU/MDU Access

- Increased Broadband data rates to the Apartment/home over existing wiring infrastructure
- Covering Wireless Access Points over multiple floors without repeaters

Industrial Automation & Control

- Higher data rates to support condition monitoring
- Continuous communication infrastructure (ease of use for configuration, maintenance, tooling)

Enterprise/Carrier VoIP

Upgrading from Analog phones to VoIP by leveraging existing wiring infrastructure

Security Cameras

Ability to extend reach beyond 100m and manage multiple systems from centralized location

Modules/Media Converters

Interim step to convert from standard Ethernet to reduced pair Ethernet without having to change design

Locomotive

- Train Backbone network and Carriage network for controlling Lights, HVAC systems, Doors etc.,
- Ability to cover multiple carriages in excess of 300m without repeater networks

Study Group - Points to Consider



- Should we consider additional applications beyond automotive?
- What are the requirements for additional applications?
- Are the requirements different from automotive?