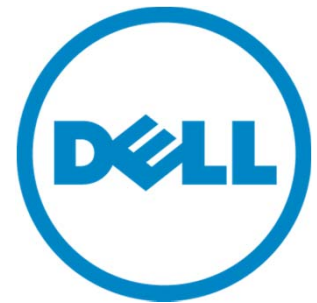

Potential Applications for 4 Pair PoE

Liam Quinn
Brad Booth



May 2013

Supporters

- Yair Dashan, Microsemi
- John D'Ambrosia, Dell
- Pavlick Rimboim, Microsemi



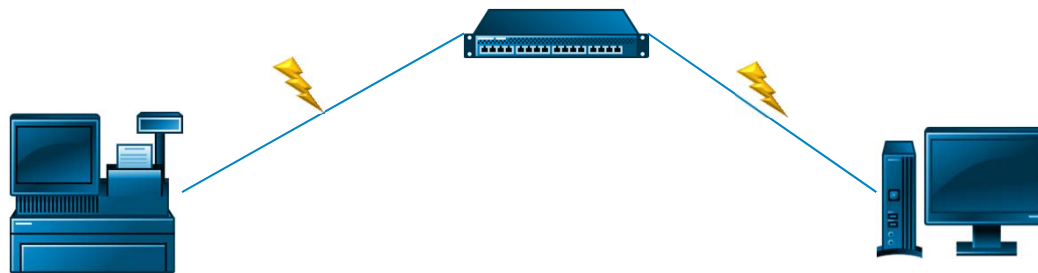
Overview

- Desire to remove, reduce and eliminate cable connectivity and complexity for client devices and peripherals
- 4 pair POE will permit client computing to continue to evolve
 - New innovation and use cases
 - Driving new devices
 - Enabling new platforms and applications
- The following slides are examples of possible applications and use cases
 - Power numbers are rough estimates



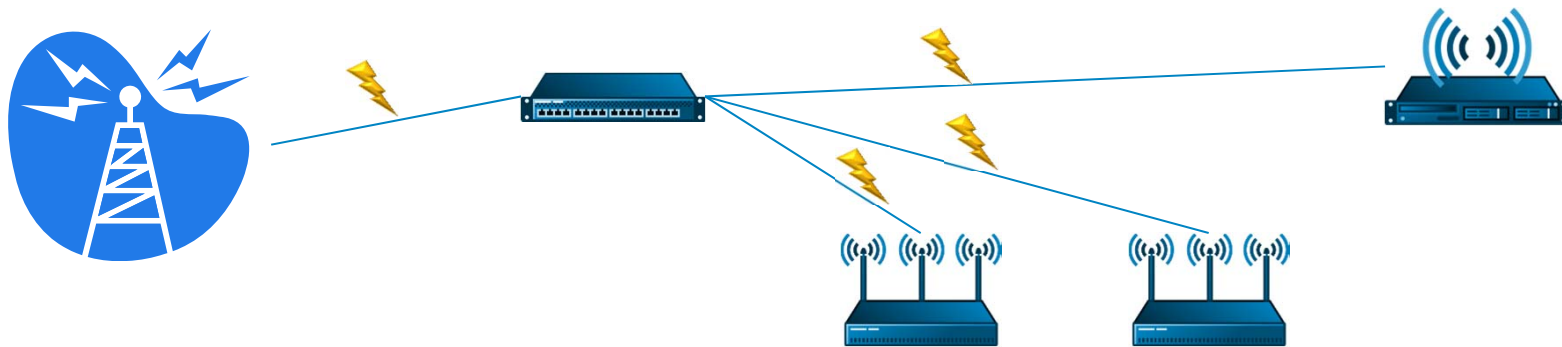
Thin Client Application

- Deployment of thin client and point-of-sale (POS) devices is increasing
- Power requirements in the 50-100W range (POS at low end)
 - Could potentially increase with better graphic performance



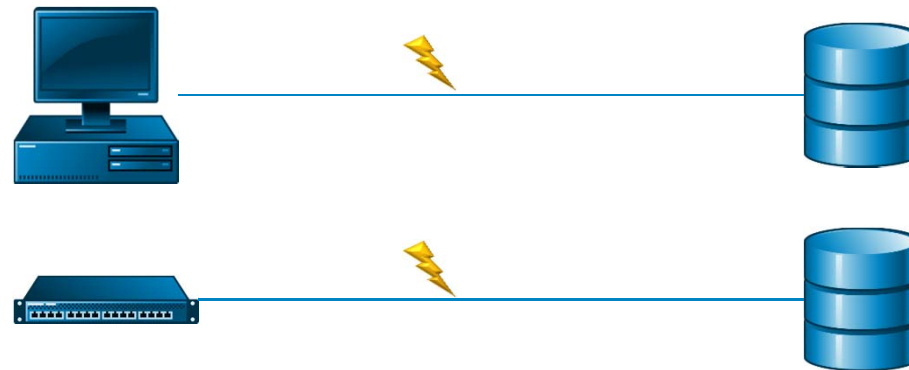
Access Point Applications

- Typical .11n access point requires ~16W today
- New specifications (like .11ac) could increase the power demand to be in the 35-40 W range
- Potential use with femto-cell radio heads



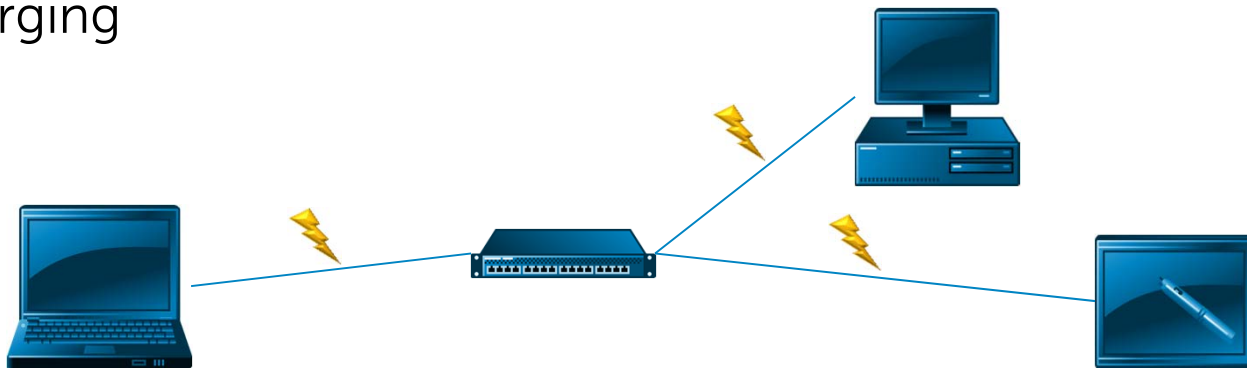
Storage Applications

- Consumer network attached storage (NAS) devices require 24-40W
 - Power is more dependent on features in system than the drive size
- NAS devices only useable when network is up and running



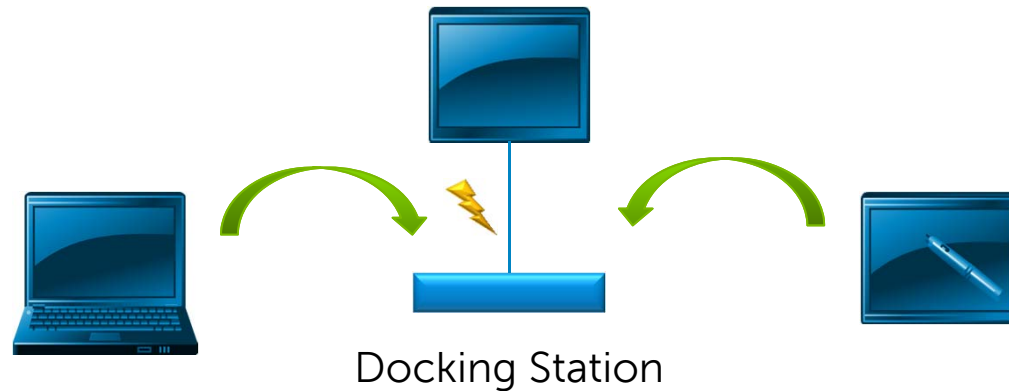
Recharge/Powering Applications

- Consumers looking for ability to reduce or eliminate cables
- Merging power and data onto one link has huge benefits
 - PoE is the only international connector compatible power standard
- Power requirement in the 70-90 W range for powering, 50-60 W for recharging



Docking Applications

- Docking station could either power the monitor or be powered by the monitor
- Docked appliance would draw power from the docking station
- Power requirement would be in the 70-100W range



Summary

Application	Power Range (W)
Thin Client	65-100
Wireless Access Points	35-40
Storage	24-40
Recharging/Powering	50-60/70-90
Docking	70-100



Thanks

