



THE WORLD'S FINEST
DATA CENTERS

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Making the Impossible Happen





- **Founded in 2002**
- **Presence in 8 data centers worldwide**
- **Dense server environments**
- **High-performance networks**
- **Massive fiber storage**
- **24x7 on-site support**

The Need

Power

- N+1 or better power
- 25Kw per cabinet
- 4 PDU connections per cabinet

Support

- 24x7 on-site remote hands
- Advanced security needs

Management

- Customer service is key
- Flexible
- Growing not stagnant

The Math

JUST POWER AND SERVERS

2000W = 1600W usable per cabinet in most datacenters (assuming A and B power)

Even if rack and blade systems were par...

285W per server (standard Dual XEON 3.2GHz) = 5 Servers pre 1600W usable (one cabinet) (200W not recoverable power)

285W per blade Server Dual XEON 3.2GHz) = 5.6 servers per 1600W usable (one standard cabinet equivalent) (all 1600W usable)

Now at scale. Put 100 Cabinet effective power in place.

The Money

100 x 5 per rack

500 Standard Servers Total

100 x 5.6 per rack

560 Blades Servers Total

Total Benefit on power = 60 Servers free colo and power

Power Savings = 60 servers x 300W x \$0.16(wH/mth) = \$2880/mo

Colo Savings = (60server/5 servers per cabinet) x \$500 = \$6000/mo

Total Monthly \$8880

Total Annual \$106,560

Total 3 year savings \$319,680

More Money

- **There is another 4% new net efficiency in power on the blades tested than the rack servers not shown here**
- **The blades include IP KVM**
- **The blade include the space for switches**
- **The Blade include a master management system for SNMP data collection**
- **The cost to deploy cabling systems is drastically reduced (90% less cabling costs)**
- **There is a level of automation, reliability, and redundancy nearly impossible to create on standard servers.**

- **At scale conventional systems waste resources.**
- **Small savings per system equate to large NET cash effects.**
- **Repurposing investments in server and switches is easy. Cabling systems as sunk/lost costs.**
- **Anyone deploying more than 100 total servers for production services should be considering dense compute environments either directly or via a service provider.**