



Intelligent lighting network
solutions for data centers

Today, data centers face pressure to improve power usage effectiveness (PUE) and deliver higher uptimes. CommScope's portfolio of Redwood intelligent lighting network solution answers these challenges by providing an average of 75 percent reduction in lighting energy use, while monitoring uptime disruptions.

Our Redwood solution scales to any environment, from Fortune 500 data centers to colocation facilities to smaller, mission-critical installations.

- Save 75 percent on lighting energy costs, improve PUE and gain LEED points
- Monitor environmental threats to uptime
- Reduce maintenance, enhance security
- Use low-voltage cable to power lights for low cost install and flexibility
- Recommended in ANSI/TIA 942A

Achieve the lowest total energy footprint

Lighting is the low-hanging fruit of energy efficiency measures. It's a fast, easy way to see immediate improvements in efficiency. Dimmable LEDs, controllable down to the individual fixture, deliver the maximum savings possible - and the best overall value.

The solution can be used in multiple environments:

- In a *lights on* data center, it enables significant dimming and energy savings while providing enough light for security cameras to operate.
- In a *lights out* data center, it deploys motion-tracked lighting on a "follow-me" basis down individual aisles using only the minimum energy necessary to light the area around occupants.

Low-voltage lighting—low cost install & flexibility

CommScope offers the world's only smart building platform to power and control lights and a high-density sensor grid using low-voltage category cable. Offering lower cost and higher flexibility, this approach enables true "lighting on demand".

Lights and controls can be easily installed or moved by pulling Category 5e, 6 and 6a cable to new locations. No line voltage is required for LED fixtures. Web-based commissioning allows simple drag-and-drop to configure fixtures and locations.

The TIA has adopted content that includes energy efficient lighting and controls in its soon-to-be-published revision to the 942 standard.

KEY DATA CENTER BENEFITS	
Energy Savings	<ul style="list-style-type: none"> • Delivers an average of 75 percent lighting energy savings • LEDs run cooler, reducing heat load in facility • Contributes up to 29 points for LEED certification
Monitor Threats to Uptime	<ul style="list-style-type: none"> • Per-fixture sensors detect and monitor temperature, motion/occupancy, light level • Programmable alerts issue by email or flashing overhead LEDs
Reduce Maintenance and Enhance Security	<ul style="list-style-type: none"> • LEDs can outperform their 50,000 hour lifetime and don't require bulb or ballast replacement • Lights can run at low levels for security camera operation • Verifies security walkthroughs and/or get alerts for unauthorized presence
Remote Monitoring and Control	<ul style="list-style-type: none"> • Monitor from anywhere with Web-based management controls • Flashes lights remotely for technicians • Reports on actual energy usage and presence

Monitor environmental threats to uptime

Lighting is ubiquitous in all interior spaces, often deployed in a grid-like pattern with power delivery. Given these attributes, it is the most logical system to cost-effectively integrate a pervasive sensor and control network. CommScope's intelligent lighting network solution pays for itself with energy savings and through deploying a smart network that senses and reports on multiple environmental parameters, including:

- High-accuracy occupancy sensing
- Ambient temperature mapping
- Programmable alerts via email or flashing overhead LEDs
- Reports that can show when people have or have not been detected in any area of the data center
- For colocation facilities, create customized environmental reports on a per-client basis



Fenwick & West has improved data center lighting efficiency by 90% and contributed to reduced HVAC load.

Reduce maintenance, monitor lighting remotely

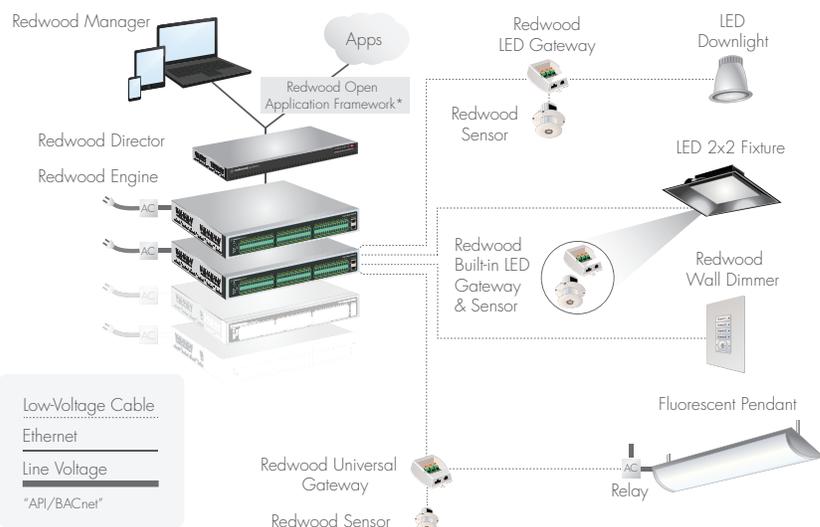
Using LEDs means less maintenance. LED fixtures typically run for 50,000 hours and managing them with the Redwood solution can substantially lengthen that lifespan. In addition, LEDs do not require bulb changes like fluorescents so there is less need for maintenance and repair.

CommScope's Redwood solution provides full, Web-based controls and reporting, so that your entire lighting system can be remotely managed, metered, and controlled. This coverage is comprehensive — all capabilities in the system are available through remote Web management, including usage reports, energy metering, fixture maintenance, and full policy control over setting light levels, time-outs, daylight harvesting, and motion policies.



The Manager provides historical and real-time energy consumption data to the fixture level.

Building-performance lighting platform



We're proud to be a part of your network's story

Here at CommScope, we embrace our role as a trusted resource, partner and facilitator. We create the infrastructure that connects the world and evolves with every advance in technology. By investing all of our capabilities, resources, relationships and products into your toughest challenges, we continue our long history of solving problems together—paving the way for new ideas and fresh ways of thinking.

We're a trusted resource and partner around the world because we're invested in you: your people, your networks, your success. It inspires us to build relationships and infrastructure ... connect people and technologies across protocols, oceans and time zones ... and share what we learn along the way. We'll never stop connecting and evolving networks for the business of life at home, at work and on the go.

**This is our promise to you.
This is CommScope.**

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