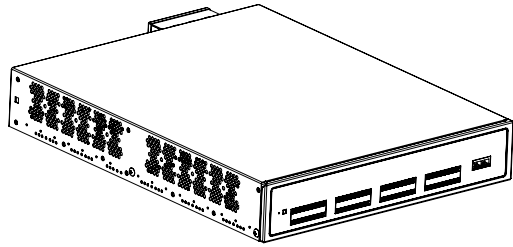


Redwood Engine 1G

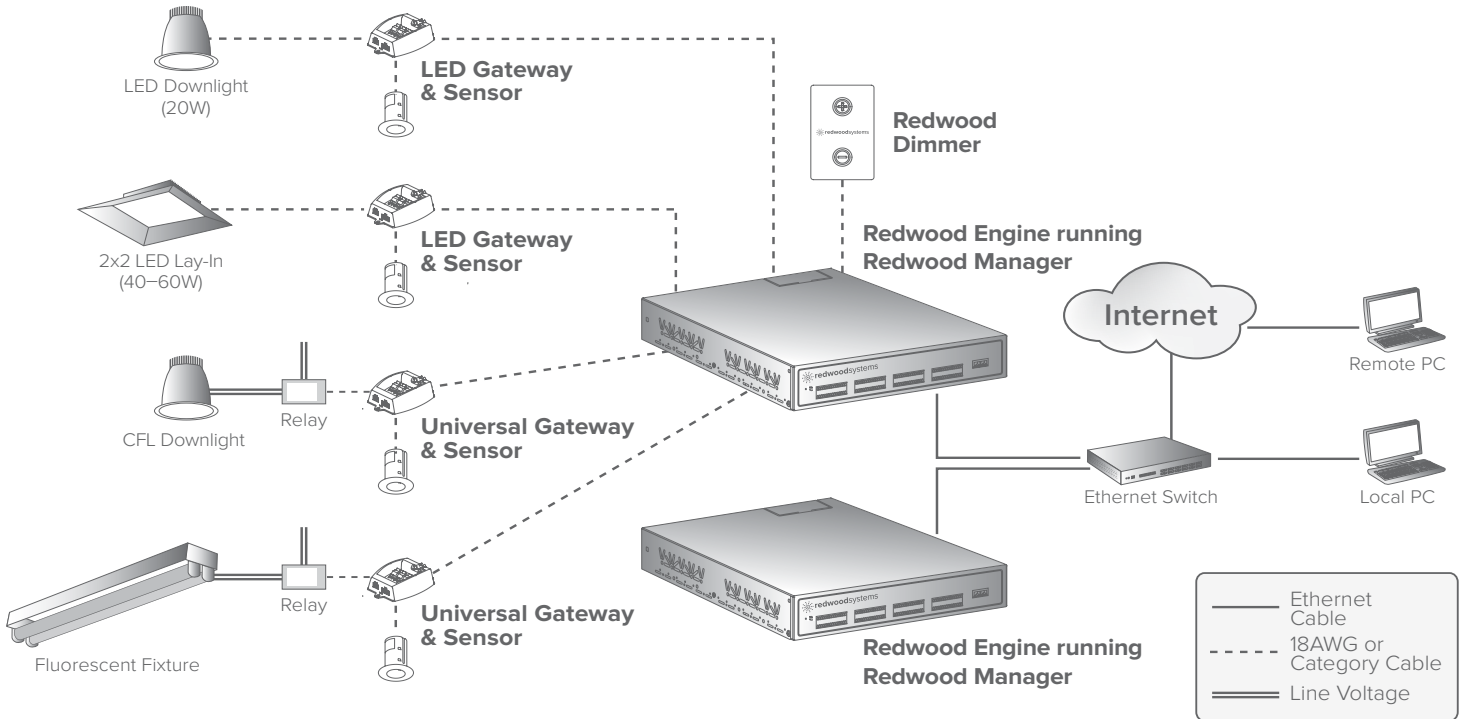


Redwood Engine 1G

The Redwood Engine centralizes power conversion, control and communications for LED lighting. It takes high-voltage 120VAC input power, converts it to low-voltage DC, and distributes it to all fixtures via Redwood Gateways using class 2, low-voltage category cabling.

The Engine powers and communicates with Redwood Gateways, Sensors and Dimmers. As the foundation of the Redwood Building-Performance Lighting Platform, the Engine performs the sophisticated controls that significantly reduce energy consumption. Multiple Engines can be linked together to power and control hundreds or thousands of fixtures. Engines can be placed in racks or wall mounts in electrical or telecom closets.

Redwood Building-Performance Lighting Platform



Project name

Project number

Date

Redwood Engine 1G Specifications

MECHANICAL

- Dimensions: 17.4" (442 mm) W X 3.4" (86 mm) H (2RU) X 23.75" (603 mm) D
- Weight: 20lbs (9.07kg)
- For indoor use only
- Operating Temp: 32°F to 122°F; 0°C to 50°C
- Storage Temp: -4°F to 158°F; -20°C to 70°C
- Operating Humidity: 10% to 80% RH
- Storage Humidity: 5% to 95% RH
- Designed for rack or wall mount

ELECTRICAL INPUT

- AC Input: 120VAC/16A
- Max Power Consumption: 1580W

LED DRIVER OUTPUT

- 64 individually controlled power and control channels
- Full-load driver efficiency: 81%

- Channel connections come in swappable banks of 8
- Constant current source
- Smooth dimming range from 5-100% of power
- Per channel DC output: 12-55VDC/ 75-500mA. Nominal 20W per channel
- Power transmitted via 18-24 AWG, field-terminated, 2 Conductor Unshielded cable
- Fully loaded Power Factor: 0.99

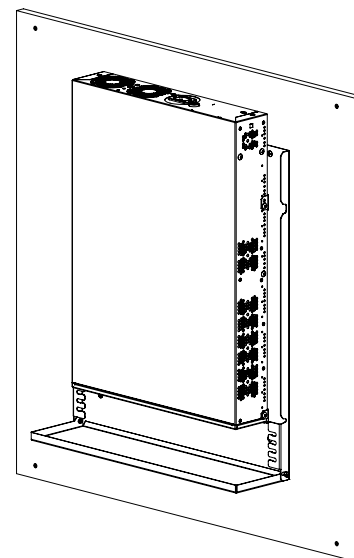
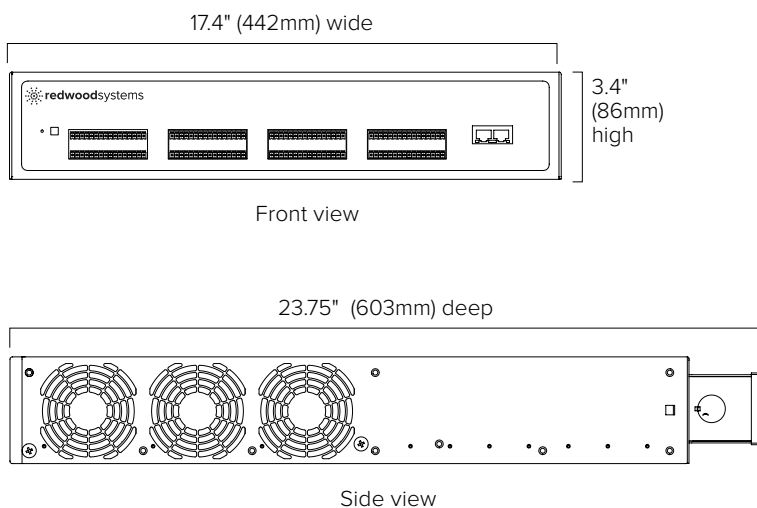
DATA

- 64 combined power and data channel ports
- Data provided through same 2 Conductor Unshielded cable that delivers power
- Two tri-mode Gigabit Ethernet ports
- Status LED for every channel
- Configurations stored in non-volatile memory

COMPLIANCE

- Class 2 electrical device
- Designed for California Title 24-2008 compliance
- UL8750 and UL60950
- UL/CUL listed
- FCC Class A Part 15
- RoHS compliant
- Surge: IEC 61000-4-5; Class 3 Severity Level
- Environmental: IEC 60950; Pollution Degree 2
- Made in the U.S.A.

Please consult with a Redwood representative for detailed project specification.



Redwood Wall Mount Kit available separately

SKU
RE64-1G-120
WallMount-Tray-1G (Redwood Engine Wall Mount Kit)

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