



AMERICAN BRIGHT



The background of the page is a nighttime photograph of a city skyline. On the left, a tall, illuminated skyscraper (One World Trade Center) stands prominently. To its right, a large, curved building with a grid-like facade is visible. In the foreground, a multi-level highway interchange is shown with long-exposure light trails from vehicles, creating streaks of white and yellow light. The sky is a deep blue. The overall composition is dynamic and modern, emphasizing urban infrastructure and lighting technology.

Qualified
Responsive
Proficient
Reliable



About Us

Our bar-setting innovation and adventurous approach make us the first choice partner for creative, cost-effective, high tech lighting solutions.

Since first lighting up the US market in 1995, American Bright Optoelectronics Corporation – a subsidiary of Taiwan-based Bright LED Electronics Corp. – has sustained growth in multiple markets including:

- | | |
|------------------------------|-------------------------|
| + General Lighting | + Transportation |
| + Aircraft Interior Lighting | + Medical |
| + Gaming | + Signage |
| + Food & Beverage | + Industrial Automation |
| + Horticulture | + Office Equipment |

With a brilliant staff and unsurpassed commitment to customer service, American Bright has extensive experience in engineering and is uniquely qualified to support fast-track customized solutions from concept to creation including lighting assemblies, LED driver/power supplies.

American Bright manufactures one of the industry's largest selections of:

- | | |
|-------------------|----------------------------|
| + AC LED modules | + EzyLED™ |
| + DC LED modules | + Infrared LEDs |
| + High power LEDs | + Flexible light solutions |
| + SMT chips | + UV LEDs |
| + PLCCs | + E-Paper Displays |
| + LED lamps | |

American Bright, your ideal LED supplier delivering unsurpassed products and services!

- + State-of-the-Art assembly lines
- + All product are RoHS compliant
- + ISO 9001, ISO 14001
- + AS 9100 (Aerospace standard)
- + IATF 16949

With offices in the U.S., Taiwan, Shanghai, Hong Kong and South Korea, American Bright quickly responds to customer demands with scalable, customizable solutions, best-quality products and the know-how to satisfy even the most challenging LED requirements.



120V / 220V AC LED Lighting Modules

**Ingeni-AC™ with SimpleDrive® AC Technology
for High Efficiency Lighting in a Compact Size**

With our patented driving scheme **SimpleDrive®**, **Ingeni-AC™** represents a much simpler and more reliable solution for general lighting with 120VAC direct input. Ingeni-AC™ delivers high efficiency lighting power in a compact size which offers uniformity and configurability in an all solid state, dimmable package. For added reliability, Ingeni-AC™ utilizes all semiconductor devices so there is no capacitor or coil required.

DC LED Modules

American Bright is uniquely positioned to offer it's customers various custom and standard DC module solutions. Standard linear modules include 6", 12" and 23" lengths.

Features:

- + Easy installation
- + Compliant with UL safety standards, UL file# E361187
- + LED component with LM80 report
- + Circular (S series): 1" - 12"
- + Square (S series): 3" (approx.)
- + Linear modules: 3", 6", 11" and 22" lengths

Tight-fitting LED Implementation made EASY

EzyLED™ is a proprietary and patented LED device with a built-in IC chip which drastically reduces the need for additional capacitors, coils or resistors. EzyLEDs are connected in parallel and can be driven from 12V AC/DC or 24V AC/DC sources. Luminous intensity remains constant even with fluctuations in voltage inputs.

The 3030 package allows for quick design and scale changes without the need for new driver boards making this the ideal solution for tight-fitting automotive applications where just the right splash of light can provide the ultimate luxury driving experience.



Features:

- + Wide voltage input range for easy adoption
- + Constant voltage IC with built-in bridge rectifier
- + High voltage durability
- + Available in red, blue, green, amber and white
- + Available applied voltages: 12V/24V
- + 0.5W, 1.0W, 2.4W

Many industrial,
commercial and
consumer applications
benefit from our
advanced technology
and quality.

Infrared LEDs

Wide Selection of High Quality Infrared Light Emitting Diodes

Our complete line of advanced through-hole and SMT infrared devices are suitable for both digital and analog control systems. Product selection includes discrete IR emitters, photo-transistors, photo-diodes, receiver modules, photo couplers, and a broad range of photo interrupters.

Specifically designed for security lighting controls, our ambient light sensors (ALS) spectral response replicates the function very close to that of the human eye. American Bright's infrared receiver modules provide good output linearity across pre-designed illumination range, low sensitivity across various light sources and are available in voltages of 2.5 V to 5.5 V.

Our IR product offering is not limited to merely standard devices; with our global engineering expertise we are well-equipped to help define the right product for your designs.

Features:

- + Through-hole and SMT
- + Discrete IR or full modules
- + Wide range of peak wavelengths
- + Lead free processing
- + Special pin lengths, pins, sizes and customized design available
- + 0.08W~3W

Applications:

- + Sensing: smoke detectors, garage doors, control sensors
- + Automation equipment
- + Security lighting control
- + Protection devices
- + Office equipment: multifunction copier scanners, laser printers
- + Medical: CCT imaging, instrumentation
- + Night vision gear



PLCCs

Best in class PLCCs excellent choice for dependability and long-life performance



With a wide viewing angle of up to 120° and available in the latest ANSI standard whites, as well as all the standard colors, American Bright's PLCC is offered in a variety of packages which includes PLCC-2, PLCC-4, PLCC-6, and PLCC-8. These discrete PLCC packages provide a wide range of power consumption from 0.05W ~ 3W. These packages, with an integral lead frame and circuit pad design, come in at under 1.5mm in height. PLCC devices exhibit excellent high-current operating characteristics, with a low thermal resistance, assuring improved heat dissipation, suitable for IR reflow soldering.

Features:

- + Wide viewing angles
- + Low profile (under 1.5mm)
- + LM80 for lighting applications
- + ANSI binning for white
- + Full spectrum RGB available
- + JEDEC MSL level 2
- + Unique bi-color, tri-color and quad-color options
- + Side mount available
- + 6V, 9V, 12V, and 24V input voltage available

Applications:

- + Medical
- + Automotive
- + Gaming
- + LCD displays
- + General lighting
- + Instrument panels

RGB w/IC

RGB w/IC PLCC is a smart LED light source that includes the controller and RGB LED chips in one package allowing for each LED to be addressable.

Features:

- + Available in 5050 and 3528 case sizes
- + Synchronous of two-lane
- + 8-bit color set (256 colors)



RGB w/IR

All-in-one indicator with an infrared LED.

- + Available in 3528 package size
- + 20mA / 50mA



RGB w/White

LED chips can be controlled separately to display various color combinations.

- + Available in 5050 package size
- + 20mA / 80mA



UV LED

Wide range of UV wavelengths and wattage comes in several PLCC packages.

- + Available in 1616, 3535, 5050, 7070 and right angle package sizes
- + 0.2W~7.0W
- + UVA & UVB

For more information, visit our website or call us for samples.

www.AmericanBrightLED.com | 1 (888) 533-0800

Our Brightest Offerings

Dedicated to being a solution provider for almost two decades, American Bright takes the guess work out of LED custom assembly projects with our strong engineering expertise.

We specialize in infrared modules, LED related PCB assemblies, AC/DC modules, flexible rope lights and customized light strips. Let American Bright supply your next project with an efficient, hassle-free and cost-effective solution that is specific in size, shape and illumination to fit your application perfectly.



Horticulture Rope Light

- + 24V DC, with 10 ft max. length
- + IP67 waterproof protection



5mm Ultra Slim Rope Light

- + 12V / 24V DC, single or RGB colors
- + IP67 waterproof protection



Motor with IR Assembly

- + Assemble the IR discrete components with a holder, coil and metal shell to produce a customized functional motor



120V AC Linear Plug-and-Play Fixture

- + 5VA material cover lens
- + Various lighting applications



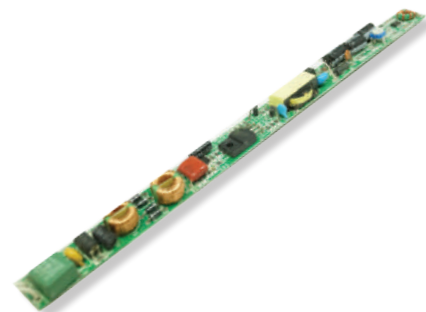
4-Channel Light Fixture

- + 24V DC with 4 rows of LEDs
- + Available with IP67 waterproof connectors



DC RGB w/White Light Strip

- + 24V DC in aluminium housing
- + RGBW control individually



Linear Power Supply

- + Various OEM open frame power supply

American Bright quickly responds
to customer demands with scalable,
customizable solutions, best-quality
products and the know-how to
satisfy even the most challenging
LED requirements.

The background of the advertisement features a collage of images. On the left, a blue textured surface with a repeating circular pattern transitions into a white background with a faint, dotted world map. Various electronic components are scattered across the map, including a square LED package with a green base, several black and white LED packages of different shapes, and a small circuit board with multiple LEDs. On the right side, a photograph of a modern skyscraper at night, illuminated with blue and white lights, is visible. The company name and contact information are located in the bottom left corner.

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