Technical solutions that are easy to find and easy to buy.

LED Lighting
Power Electronics
Precision Measurement
RF & Microwave
Sensors & Wireless

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led.cdiweb.com
power.cdiweb.com
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2019
USA Stock, Readily Available
AC/DC Power Supplies & DC/DC Converters
Cosel – produces AC/DC and DC/DC power supplies from 5W to 5000W in multiple form factors.
EFORE / ROAL Brand Digital Power – offers the smallest form factor, high efficiency AC-DC power, LED drivers and power solutions.
MEAN WELL – provides the largest selection of standard AC/DC power supplies, LED drivers, DC/AC inverters & chargers, and surge protection products.
MINMAX Technology Co., Ltd. – produces a comprehensive line-up of DC/DC converters from 1W to 75W and AC/DC Power Modules from 2W to 60W.
NetPower Technologies – industry leader in brick style DC/DC converters with very high efficiency, high power density, isolated and non-isolated.
Phiilong – provides AC/DC adapters (wall plug and desktop), POE-midspans, extenders and splitters.
Power Partners, Inc. – offers medical and ITE safety certified AC/DC power supplies.
Protek Power – develops medical and ITE safety certified AC/DC power supplies, open frame, and desktop.

EMI/EMC Noise Filters
Cosel – provides quality, effective and easy-to-use single phase, three phase and DC type EMI/EMC noise filters.
Okaya – offers electrical noise and surge suppression components.

Cable Assemblies & Power Cords
LINVOX Corp. – provides standard and custom power cords with worldwide safety certificates.

Power Management ICs
Skyworks Solutions – analog semiconductor products including battery chargers, DC/DC converters, voltage regulators and LED drivers.

Thermal Management
Bergquist – supplies advanced thermal management materials.
Mechatronics – provides AC and DC axial fans, blowers, motorized impellers and value-added assemblies.
YS Tech – offers AC and DC axial fans, blowers and cross flow fans with long life bearing systems.

High-Performance Passive Components
Knowles Capacitors (Novacap) - offers multilayer ceramic capacitor (MLC) products from 0402 surface mount capacitors to 10kV high-voltage units.
Okaya – provides electrical noise and surge suppression components.
Knowles Capacitors (Syfer Technology Limited) offers application specific multilayer ceramic capacitors and EMI suppression filters.

Magnetics
Precision – produces standard and custom magnetic components and assemblies, including transformers, coils, chokes and inductors.
Pulse Electronics – makes innovative magnetics, antennas, and connectors for wireless and wireline communications.
Renco Electronics – supplies custom and standard transformers, chokes, coils, and subassemblies for many applications.

Fuses
AEM Components – provides surface mount protective and inductive electronic components for circuit protection and EMI signal filtering.

Terminals & Connectors
Amphenol LTW – develops waterproof interconnects from IP65 to IP69K for rugged & harsh environment applications including LED lighting & signage.
JST – supplies interconnection products including wire-to-wire, wire-to-board, board-to-board, flex/flat cable, memory connectors and more.

Semiconductors
Electronic Devices (EDI) – produces bridges, low and high voltage rectifiers, high voltage fast recovery diodes and high voltage assemblies.

Indication
Okaya – produces a wide range of standard and custom LCD modules and display technologies with highly accurate touch panel technology.
SunLED – develops extensive line of LED lamps, surface mount LEDs, and LED displays that are RoHS and REACH compliant.
Visual Communications (VCC) – supplies LED indicators, LED light pipes, neon indicators and incandescent indicators.
LED Light Sources

**Citizen Electronics** – produces COB LEDs for general lighting applications with superior brightness and efficacy and with excellent color control and reliability.

**Xicato** – offers an ecosystem of intelligent LED modules for downlight and spotlight luminaires, integrating electronics, software and connectivity.

**Lumileds** – manufactures high-performance LEDs for general illumination applications, including CSP, COB, color, high-power, horticultural, IR, UV and mid-power packages.

**Audax Electronics** – builds high-performance LED modules utilizing the latest SMD technologies; standard products are designed to work with LEDI optics.

LED Connectors

**Bender + Wirth** – offers the most comprehensive line of high quality, pre-wired COB holders with optics mounting options.

**BJB** – makes a variety of connectors for lighting applications, including COB LED holder systems.

**Ideal Industries** – provides innovative high-quality COB LED holders and LED optics adaptors.

**Amphenol LTW** – supplies waterproof interconnects from IP65 to IP69K for rugged and harsh environment applications including LED lighting and signage.

LED Optics

**LEDiL** – creates a wide range of top quality and cost effective standard and custom lenses and reflectors for a variety of LED lighting applications.

**LensVector, Inc.** – produces liquid crystal controllable lenses in multiple sizes that enable the beam angle from a luminaire to be dynamically shaped from less than 10° to greater than 50°.

**Gaggione** – manufactures high-quality standard and custom LED optics including collimators, reflectors, and Fresnel lenses.

**Yongtek** – offers complete diffuser solutions and many kinds of LED plastic sheets and LED fixture covers.

**MEAN WELL** – manufactures more than 1000 high-quality LED driver models from 8W to 600W, complying with global lighting standards.

**EFORE-ROAL Digital Light** – delivers the widest range of constant current drivers and the smallest constant voltage drivers available in the industry.

**MOSO** – delivers high quality, cost effective outdoor LED lighting solutions. Fully programmable LED drivers are available from 75W to 320W.

**Xicato** – offers programmable drivers featuring Bluetooth and/or wired control for the majority of LED light sources up to 56W.

Thermal Management

**MechaTronix** – designs passive and active LED coolers, including round pin fin and star heat sinks with standard mounting holes for direct or holder mounting of COB LEDs and optics.

**Furukawa Electric (Thermal Management Solutions)** develops heat dissipation products for very high-power COB LED applications.

**Celera** – produces the most reliable thermal interface materials for LED lighting with a simple “peel-and-stick” design.

LED Surge Protection

**ABLE Power Products** – offers patented designs for hard-wired in-line surge protection for LED lighting.

**Okaya** – offers surge protective devices specifically designed for outdoor LED lighting applications.

Lighting Sensors & Controls

**notWired.co** – provides engineering services and expertise in hardware and firmware design. Primary focus on RF & Microwave design, LED control systems, and embedded connectivity.

**EnOcean** – provides self-powered (energy-harvesting) wireless switches and sensors for BLE-enabled LED lighting modules.

**IR-TEC** – builds sensor and control solutions for energy efficient lighting including occupancy, vacancy and daylight sensors.

**Xicato** – portable spectrometers with best in class accuracy.

**Eulum Designs** – develops wireless modules to integrate LED technologies with intelligent lighting networks via Bluetooth.

Sensors & Wireless Solutions

**All Sensors** – a leading manufacturer of MEMS piezoresistive pressure sensors and pressure transducers.

**Andon Electronics** – offers optoelectronics, image sensors, gas sensors, IC sockets, micro-precision sockets, adapters, board-to-board interconnects and contact/terminal products.

**EM Microelectronic** – a semiconductor manufacturer specialized in the design and production of ultralow power, low voltage integrated circuits for battery-operated and field-powered applications in consumer, automotive and industrial areas.

**Fanstel** – offers powerful, highly flexible, ultra-low power Bluetooth low energy (BLE) modules using Nordic nRF52 SoCs.

**Linx Technologies** – manufactures wireless components including antennas, modules, remote controls and RF connectors.

**MegaChips** – designs innovative semiconductor devices that have revolutionized the image processing, gaming, audio, display, enterprise, home automation, and communications markets.

**notWired.co** – is an engineering team with experience in complex embedded designs with expertise in hardware/PCB, embedded firmware, Bluetooth/BTLE, WIFI, mobile app development, and PC app development.

**NovaSensor/Amphenol** – produces high-performance MEMS pressure sensors for medical, automotive, industrial, and consumer applications.
Gaging / Metrology

Arnold Gauge – provides the world’s finest custom in-process measurement solutions since 1918.


CDI Data Collection Solutions – offers a desktop data collection kiosk that is ideal for desktop data collection and interfaces with most any SPC capable gage (caliper, indicator, micrometer) in addition to Solartron Metrology’s Orbit® 3 Digital Gaging Network.

Mahr Federal – provides a large range of easy to use measuring and metrology tools that deliver reliable data. Mahr Federal products are used for professional measuring applications where length, form, and surface deviations are inspected on workpieces throughout the automotive, aerospace, and other scientific sectors.

MicroRidge Systems, Inc. – offers the ability to easily connect any combination of digital gages (calipers, micrometers, digital indicators, etc.) and multiple RS-232 devices to your PC.

Mitutoyo America – producer of micrometers since 1937 and now recognized as a world leader in metrology. Produces high-quality products including calipers, indicators and gages.

Prolink Corporation – offers automated data collection and quality analysis solutions for both small and large companies. Prolink provides inexpensive products that are easy to implement and maintain.

Solartron Metrology – designs digital gage probes, LVDT’s, optical linear encoders and associated instrumentation, as well as offers the Orbit® Digital Measuring Network.

Starrett Company – produces precision measuring tools such as, micrometers, calipers, rules, levels, electronic gages, dial indicators, gage blocks, granite surface plates and custom engineered products.

Position Feedback

Alliance Sensors Group – provides the industry’s finest LVIT position sensors specifically designed for industrial and automation applications. Sensors for roller position, gauging applications, cylinder positioning, and much more.

Gentech International Ltd. – provides a variety of switching, sensing and control solutions and supplies a comprehensive range of standard level, flow, and position sensors, including new optical sensing solutions.

Heidenhain – develops and manufactures the world’s finest linear encoders, angular encoders, rotary encoders & gaging probes. Our superior technology is utilized in high-precision motors, motion control and machining systems worldwide.

Madison Company – designs and manufactures level switches and sensors, temperature sensors and proximity sensors for OEM installations worldwide. Applications include off-highway vehicles, food equipment, appliances and medical equipment.

Micro-Epsilon – creates draw wire displacement sensors for measuring linear movement using a flexible cable and high accuracy encoders.

Schaevitz Sensors – offers industrial linear displacement sensors and rotary displacement sensors.

SmartTool Technologies – makes electronic protractors and OEM inclinometers designed for angle measurement.

Material Analysis

Phase II+ – manufactures machine tool accessories, material testing instrumentation, precision measuring tools, cutting tools and shop supplies.

Automation & Controls

ACR Systems, Inc. – manufactures a line of world class data loggers that measure and record temperature, relative humidity, electric current, pressure, process signals, pulse frequency, power quality and more.

NK Technologies – from motor monitoring to heater status, factory automation and semiconductor tools to water/wastewater plants, NK Technologies has a family of current sensors to meet your application needs.

Sensors & Wireless Solutions (continued)


Sensata Technologies, Inc. – makes pressure sensors with ceramic capacitive and hermetic technologies for a full range of heating and air conditioning systems.

SGX Sensortech/Amphenol – a market leader in innovative gas detector sensors that offer sensing technology for environmental, health and safety and materials analysis applications. We have expertise serving customers in a wide range of sectors from automotive and industrial OEMs to pharmaceutical companies, energy companies and scientific research institutions.

TDK InvenSense – offers a wide range of 6-axis and 9-axis motion sensors as well as analog, PDM, and I²S MEMS microphones for the IoT, wearable, mobile, smart remote and tablet markets.

TE Connectivity – recently acquired Measurement Specialties (MEAS), one of the largest connectivity and sensor companies in the world. TE Connectivity offers flow, fluid property, force, humidity, photo optic, piezo film, position, pressure, scanning, temperature, vibration and ultrasonic sensors.

Telaire/Amphenol – offers low-cost infrared CO2 gas sensing technology addressing a wide variety of HVAC (commercial & residential), industrial, automotive, appliance, and medical applications.

Thermometrics/Amphenol – provides NTC and PTC thermistors and RTD’s, chips, beads, discs, rods, and probes with standard and custom assemblies. Temperature ranges from cryogenic to 450°C with resettable fuse PTC applications.
RF & Microwave

Amplifiers & ICs

KCB Solutions Inc. – supplies RF and microwave surface mount components for high reliability/high-performance applications within the avionics, satellite and defense industry.

Skyworks Solutions, Inc. – designs innovative high-performance analog semiconductors. Skyworks supports automotive, broadband, wireless infrastructure, energy management, GPS, industrial, medical, military, wireless networking, smartphone and tablet applications. The company’s portfolio includes amplifiers, attenuators, circulators, demodulators, detectors, diodes, directional couplers, front-end modules, hybrids, infrastructure RF subsystems, lighting and display solutions, mixers, modulators, optocouplers, opto-isolators, phase shifters, PLLs/synthesizers/VCOs, power dividers/combiners, power management devices, receivers, and switches.

Sumitomo Electric Device Innovations USA – supplies microwave and millimeter wave RF devices for cellular, broadcast, satellite, point-to-point radio, general communications and radar applications. Provides leading-edge GaAs and GaN products such as low noise amplifiers, up converters, down converters, internally matched FET amplifiers (IMFET), amplifiers, and discrete transistors. A recognized leader in quality and reliability with a strong heritage in research and development.

Connectors & Cables

Carlisle Interconnect Technologies – produces high-performance cable interconnect systems and manufactures high end RF/Microwave connectors. Develops and produces high-speed wireless communications, automated test equipment, microwave/RF transmission and more.

Insulated Wire – supplies global markets with coaxial microwave cable and high-power microwave cable assemblies, as well as multi-conductor wire and cable, high temperature PTFE hook-up wire and dielectric cores. IW also has a wide variety of RF connectors and adapters to complement its product line.

Micro-Coax – provides semi-rigid cable, hand-formable cable, flexible coax cable, spline dielectric coax cable and RF cable assemblies.

RF Industries – develops coaxial connectors, very low cost, SMA, SMB, BNC, TNC, N, UHF, Mini-UHF, FME, LMR, 7/16 DIN, adapter kits, and direct replacement for Amphenol connectors.

Oscillators & Timing

Mercury United Electronics Inc. – manufactures frequency control products that include crystals, oscillators, low EMI spread spectrum clock oscillators, (quick-turn) TCXO’s, VCTCXO’s, VCXO’s, OCXO’s and monolithic crystal filters.

MtronPTI – provides crystal-based timing solutions such as TCXO and OCXO products for use in wireless or wireline communications equipment, computing, and networking equipment. Also provides high-performance custom and semi-custom filter applications for RF and microwave applications.

Taitien – offers OCXO, TCXO, VCXO, crystal, and crystal oscillators. Taitien frequency products support various fields including automotive, consumer electronics, information technology and telecommunications.

Passives & Materials

ARC Technologies – designs and manufactures microwave absorbing materials for commercial and defense applications. While providing a complete range of standard absorber products, ARC Technologies also offers dielectric materials, composites, radomes, and radar absorbing structures (RAS).

Knowles Capacitors (Dielectric Laboratories) – offers application specific microwave and millimeter wave components serving customers in fiber optic, wireless, medical, transportation, semiconductor, avionics and military markets. Manufacturers high Q multi-layer capacitors (MLC) and single-layer capacitors (SLC), resonators, filters, broadband DC blocks, thin film components, and custom ceramic components.

Pulse Electronics – produces antenna solutions for WiFi, Bluetooth, GPS, Zigbee, and similar applications. They offer both internal and external antenna options and support a variety of vehicular-mount antenna products. Pulse also offers a variety of RF magnetic and inductor products.

Tai-Saw Technology Co. Ltd. – recognized as the leading SAW (surface acoustic wave) device supplier in Taiwan, as well as the key OEM/ODM supplier of SAW devices in the world.

Three Uniques About CDI:

Our commerce enablement tools make it efficient and effective for customers to find and purchase the right technical solution from our world class suppliers.

Our professional, personalized and flexible customer service makes us easy to do business with.

Our product design support coupled with our expertise, tools and world class products helps customers accelerate their time to market.
Component Distributors, Inc. (CDI) is a value-added distributor of electronic components, specializing in high-performance RF, sensor, LED and power electronics technologies for a variety of OEM system applications.

CDI distributes globally and provides local customer service and application support across the Americas (USA, Canada, Mexico and Brazil).

CDI delivers technical solutions that are easy to find and easy to buy, providing customers and supplier partners with design services, web commerce enablement and flexible supply chain solutions.

CDI also provides the following services for customers:
- Inventory of popular part numbers
- Low minimum order quantities to support development, prototyping and small production runs
- Shorter than factory lead times with forecast
- Technical support
- White papers, application notes and reference designs
- 30-day purchasing credit terms for qualified companies

### INBOUND SALES

#### INBOUND SALES USA

**Toll-Free:** 1-800-777-7334  
**Email:** sales@cdiweb.com

<table>
<thead>
<tr>
<th>Region</th>
<th>Contact Information</th>
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(888) 734-9600 Toll-Free  
seattle@cdiweb.com |
| Northern California | CA (North), HI, NV (North)  
(800) 536-9833 Toll-Free  
(408) 733-7044 Direct  
sanjose@cdiweb.com |
| Southern California | CA (South), NV (South)  
(800) 372-1580 Toll-Free  
(858) 535-0003 Direct  
sandiego@cdiweb.com |
| Rocky Mountains | AZ, CO, ID (East), KS, ND, NE, MT, NM, SD, UT, WY  
(800) 551-7357 Toll-Free  
(720) 962-5152 Direct  
denver@cdiweb.com |
| North Central | IA, IL, IN, MI, MN, MO, WI  
(866) 457-9430 Toll-Free  
chicago@cdiweb.com |

#### INBOUND SALES INTERNATIONAL

**REST OF WORLD**

<table>
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| Argentina    | +55 (19) 3305-7569 Direct  
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| Colombia     | colombia@cdiweb.com |
| México       | +52 (33) 3641-5051 / 52  
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| Brasil       | +55 (19) 3305-7569 Direct  
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| Asia, China, Australia, Middle East, Israel | +1 (303) 357-2738 Direct  
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</table>
| IT                         | 3963 Walnut Street  
Denver, CO 80205  
(303) 531-1800 Direct |

<table>
<thead>
<tr>
<th>Accounting</th>
<th>Contact Information</th>
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</table>
|            | (303) 531-1880 Direct  
(720) 294-0998 Fax  
ar@cdiweb.com |

<table>
<thead>
<tr>
<th>Accounts Payable and Receivable</th>
<th>Contact Information</th>
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|                                  | PO Box 13017  
Denver, CO 80201-3017 |