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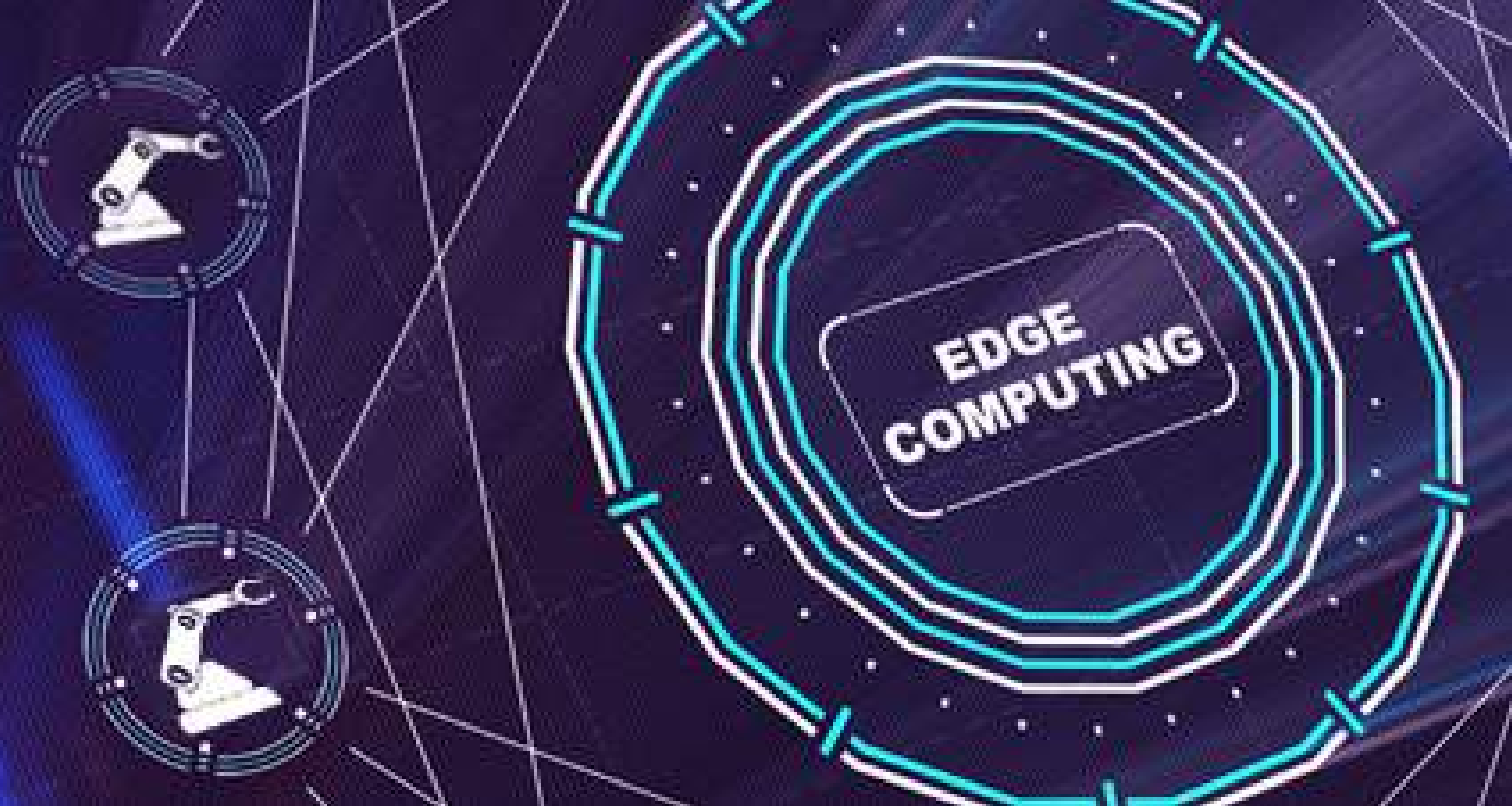In-stock products normally ship the same day

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How to implement different types of edge computing for Smart factory application

More extensive uses of edge computing will use servers that are much closer to the industrial plant, some in shared facilities with others owned or rented directly by the plant operator to host vital, high-performance applications. Industrial units utilize edge-computing hardware which will filter the data produced by local machines and update the most important aspects to a remote data Centre or cloud infrastructure. In Smart edge technologies, IIoT devices, sensors, actuators and controllers are used to track the health of equipment and the moving parts within it. With edge computing, the machine does not need to communicate with the central cloud before making a decision that will preserve the equipment and reduce downtime in real-time.

Distributed computing infrastructure and Data processing are two major components of edge computing. Depending upon the complexity of the analytics needed, the computing infrastructure might range from a simple MCU to a high-end GPU. Edge computing comprises of compute, storage, data management, data analysis and networking amongst others. The information is transferred to the cloud for further analysis or integration into a bigger system depending upon the complexity.

Many of the sensors used on the shopfloor are wireless, communicating via Bluetooth, Wifi, Zigbee, or Thread protocols. These sensors may not use typical fieldbus-over-TCP/IP protocols, instead of relying on IoT-specific standards like CoAP and MQTT. Intelligent industrial gateways often have a CPU capable of running a sophisticated operating system like Linux or Windows 10, as well as software tools like Node-

RED and general-purpose programming languages like C, C++, and Python.

As cited in the whitepaper titled 'Edge computing in the industrial environment' in the section 'The forms of edge computing', the edge devices are formed into thick, thin and micro edge sublayers. The thick edge, or the thick-compute layer, includes the on-premises data centres and shared facilities operated by internet or cellular service providers and others who will provide on-demand access for computing and storage resources. It covers the traditional way which has been used to run SCADA and similar applications. The thin edge and the micro edge represent the layer that is closest to the shop floor machinery and the part of the industrial computing ecosystem that is the most mature. The thin edge includes devices such as PLCs and specialized embedded computers that are built into machine tools and other production equipment. The micro edge represents the sensors that acquire data from process and manufacturing equipment that, traditionally, have been directly attached to PLCs.

Industrial Edge and Enterprise Edge are the two technologies to be considered. In Industrial Edge, large numbers of sensors are connected with different protocols, different data sources, and incompatible data formats, bridging industrial equipment and factory systems to meet the digital world. When coming to Enterprise Edge, it computes resources and manages Industrial Edge and deploys enterprise-level infrastructure on the factory floor.

Use case: Smart Factory Solution

As shown in the below figure, a Smart Factory Solution has the capability to connect multiple sensors to monitor the status, automate & collect data, analyse it and derive useful insights to improve manufacturing operations. Industrial edge computing can be set up in such a way that an enterprise reaps the benefits of both edge computing and the scalable resources of cloud computing.
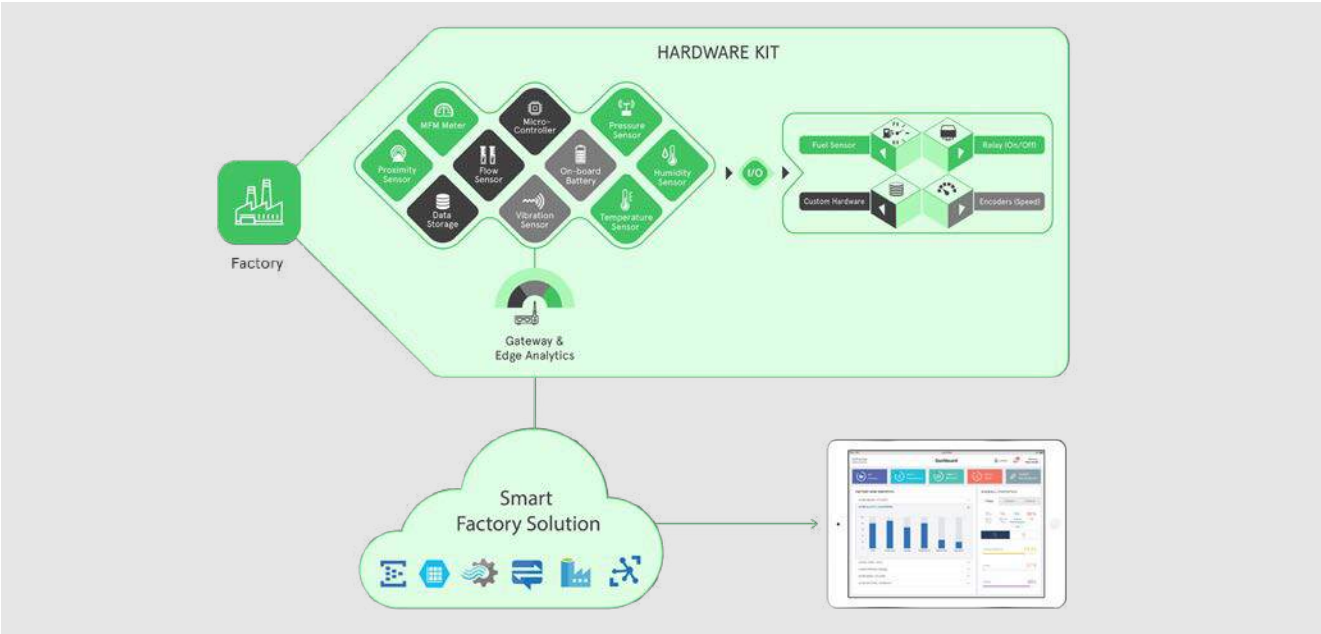
Figure: Smart Factory Solution

As depicted in the preceding figure, it involves Site assessment whereby a technical team will identify machines that are smart, semi-smart and dumb. Smart machines can be connected to the Cloud directly. Semi-smart machines can provide a few data points directly to cloud and require external sensors/actuators in order to send any further data points. Dumb devices cannot provide any data and require external sensors/actuators to connect and send particular data to the cloud.
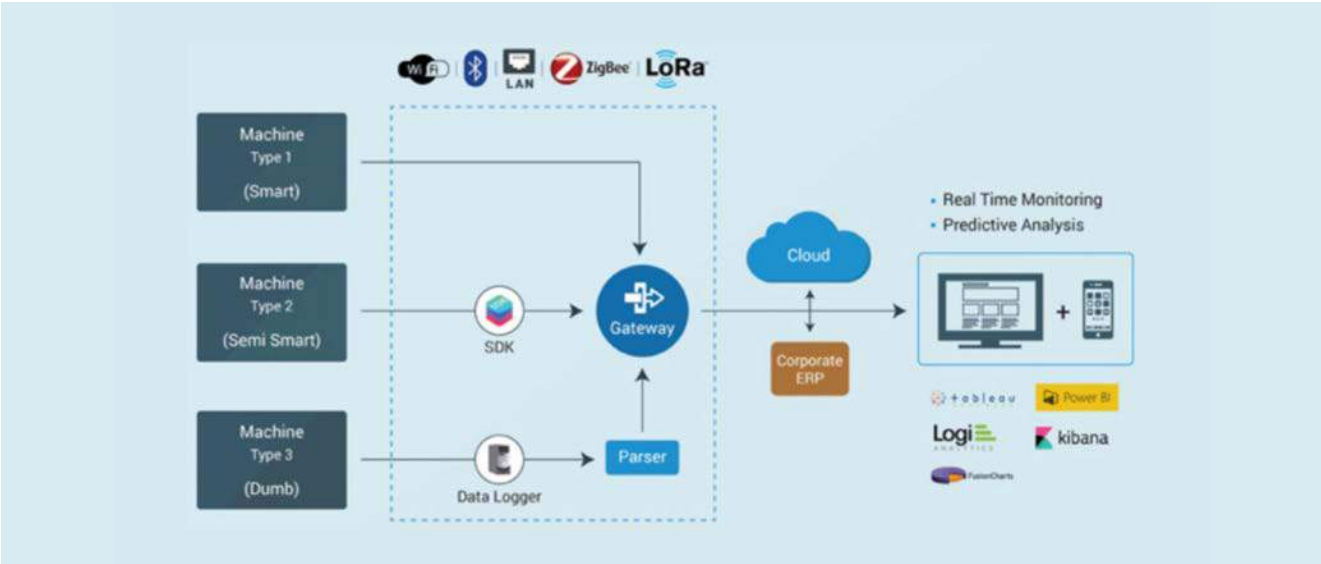
Figure: Smart Factory Solution

Edge analytics pushes the communication capabilities, processing power and intelligence of the edge gateways directly into devices such as programmable automation controllers (PACs). It involves demand forecasting and capacity planning, Predictive maintenance with advanced algorithms, Real-time demand visibility, suggesting supply chain bottlenecks, Detect anomalies at the edge and symptoms for equipment failures.

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TransGuard Multilayer Varistors

The Glass Encapsulated TransGuard® multilayer varistors are zinc oxide (ZnO) based ceramic semiconductor devices with non-linear, bi-directional V-I characteristics.
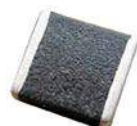
Search
22AJ1952 at newark.com

NANO2® 456SDE Fast Acting SMD Fuse

The 456SDE Series NANO²® fuse is a small sized, surface-mountable high current fuse which provides over-current and excessive surge current protection for applications operating at high current in a limited space.

Search
57AJ9062 at newark.com

Low Resistance SMD PTC Fuses

PTSLR1206 series SMD PTC fuses. Current rating from 0.75 to 5.00A.

Search
71AJ7786 at newark.com

Metal Foil Current Sensing Resistors

High Temperature Type up to 175°C, 22m ohm, 0.75W for 1206 size, +/-1% tolerance, +/-50ppm TCR. Face down mounting and superb heat dissipation.

Search
KRL1632E-C-R022-F-T5 at newark.com

Precision Thin Film Chip Resistors

Precision, reliable chip resistor with high resistance. 1M ohm for 0805 size. +/-0.1% tolerance, +/-25ppm TCR. Highly reliable, Biased life test 10,000 hrs, less than 0.1% drift.
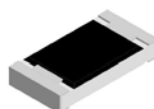
Search
RG2012P-105-B-T5 at newark.com

Type ALH, AC Filter Capacitors for Harsh Environments

Designed for harsh environments, the ALH series of AC-rated filter capacitors offer 50% greater life than competitive 85/85 THB-rated film capacitors

Search
58AJ7920 at newark.com

Tight Tolerance Precision Current Sense Resistors

Tolerance down to 0.5% and TCR vales down to 100ppm. Sizes range from 0201 up to 1206.

Search
29AH2742 at newark.com

LST Series Metal Oxide Varistors

SPD Thermally Protected Varistor. he built-in thermal disconnecting function and electric arc shield provides additional protection to prevent catastrophic failure and fire hazard even under the extreme circumstances

Search
25AJ3861 at newark.com

Internal Wifi Antenna

·2400~2483.5MHz/4900~5825MHz.
·Dual band Frequency
·Customizable cable length and type
·Rigid PCB Type
·RoHS compliant"

Search
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PVS-032-1100-BLK Heat Shrink Tubing, 100ft.

multicomp PRO

This heat shrink tubing is a black standard wall Heat Shrink Tubing made of PVC and offers 2:1 shrink ratio, 0.5" inner diameter, 100¡C Minimum recommended shrink temperature, black in color. Available in various sizes and colors.

Search
03F3482 at newark.com

SPC5087 Heat Shrink Tubing, 1 ft. , with EMI Shielding, 3ft., 0.25" inner diameter.

multicomp PRO

This product is comprised of MIL-I-23053/5 polyolefin heat-shrink tubing and an EMI shielding fabric woven of nickel-over-copper-plated polyester taffeta cloth which provides outstanding shielding performance.

Search
50N162 at newark.com

MC001771 Heat Shrink Tubing, Flame Retardant, Pack of 24.

multicomp PRO

A 24 pack of 6" long tubing with an inner diameter of 0.217 ". The shrink ratio is 2:1 and color is black. They are available in various sizes.

Search
18AC1037 at newark.com

SPC12216 Fray Resistant Expandable Sleeving, 50ft.

multicomp PRO

This Expandable Sleeve is for use with cable and wire, 50ft spool length, 1.25 inner diameter. It can be cut with ordinary scissors, eliminates the need for hot-knife cutting. Self-extinguishing when used to encase typical non-flammable wires or cables.

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SPC12219 Fray Resistant Expandable Sleeving, 25ft.

multicomp PRO

This Expandable Sleeve is for use with cable and wire, 25ft spool length, 3.5" inner diameter. It can be cut with ordinary scissors, eliminates the need for hot-knife cutting. Self-extinguishing when used to encase typical non-flammable wires or cables.

Search
06H1243 at newark.com

PVI-040-1100-BLK Insulated PVC Sleeving, 100ft., black

multicomp PRO

This sleeving is used for insulating cable and wire., 0.625 inner diameter, 1.32 Specific gravity, and 1.32 Specific gravity.

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03F3657 at newark.com

MP700435 Anti-Static Bag, 2" X 3", Open Top

multicomp PRO

This static shielding bag is suitable for packing electronic products which are sensitive to static. Our static shielding bag consists of a static dissipative polyester outer layer and a static dissipative polyethylene inner layer with a center metallized shield layer.

Search
67AH8619 at newark.com

MP002748 MP M12 Push-Pull Connectors, Panel Mount Receptacle, 4 Contacts, Solder Pin

multicomp PRO

The MP M12 Push-Pull Connectors are a range of Chrome plated Brass connectors that are both solid enough to be used within tough environments whilst also being aesthetically pleasing.

Search
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MP002474 MP Sealed D-Sub Connectors, 9 Contacts, DE, Solder Cup

multicomp PRO

The MP Sealed D-Sub series of connectors are environmentally sealed to IP67 or IP68 and are ruggedised for use in demanding applications.

Search
64AH1332 at newark.com

MP002431 MP USB Sealed Metal Connectors USB Sealed Connector, USB Type A, USB 3.0, Receptacle

multicomp PRO

The MP USB Sealed Metal range of connectors and Adaptors are solidly built and designed for demanding applications. Environmentally sealed to IP68

Search
64AH1289 at newark.com

MP002471 MP HDMI Sealed Metal Connectors, HDMI Receptacle to HDMI Plug

multicomp PRO

The MP Metal Sealed HDMI series of connectors are solidly built metal connectors designed for demanding applications. Environmentally Sealed to IP68.

Search
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MP002488 MP M6 Snap-In Connectors, Circular Connector, Panel Mount Plug, 6 Contacts

multicomp PRO

The MP M6 Snap-In series are a miniature range of connectors with a size of just 8.5mm in diameter, Fits 6.1mm cut-out, Solder or pre-wired termination, IP65 rated

Search
64AH1565 at newark.com

MP002505 MP Hybrid Connectors, Circular Connector, Panel Mount Receptacle, 4 Contacts, Solder Socket

multicomp PRO

The MP Hybrid series offer a unique opportunity for both power and signal connections to be made within a single housing providing an ideal solution for when panel space is limited.

Search
64AH1571 at newark.com

MP002534 Circular Connector, MP-T13 IP68 Series, Panel Mount Receptacle, 2 Contacts, Solder Pin, Threaded

multicomp PRO

The MP-T13 IP68 series are a robust range of connectors incorporating threaded couplings and weather sealing to IP68 all within a small housing.

Search
64AH1593 at newark.com

MP002553 Circular Connector, MP-T21 IP68 Series, Cable Mount Plug, 5 Contacts, Screw Pin, Threaded.

multicomp PRO

The MP-T21 IP68 series is a robust range of connectors incorporating threaded couplings and weather sealing to IP68.

Search
64AH1368 at newark.com
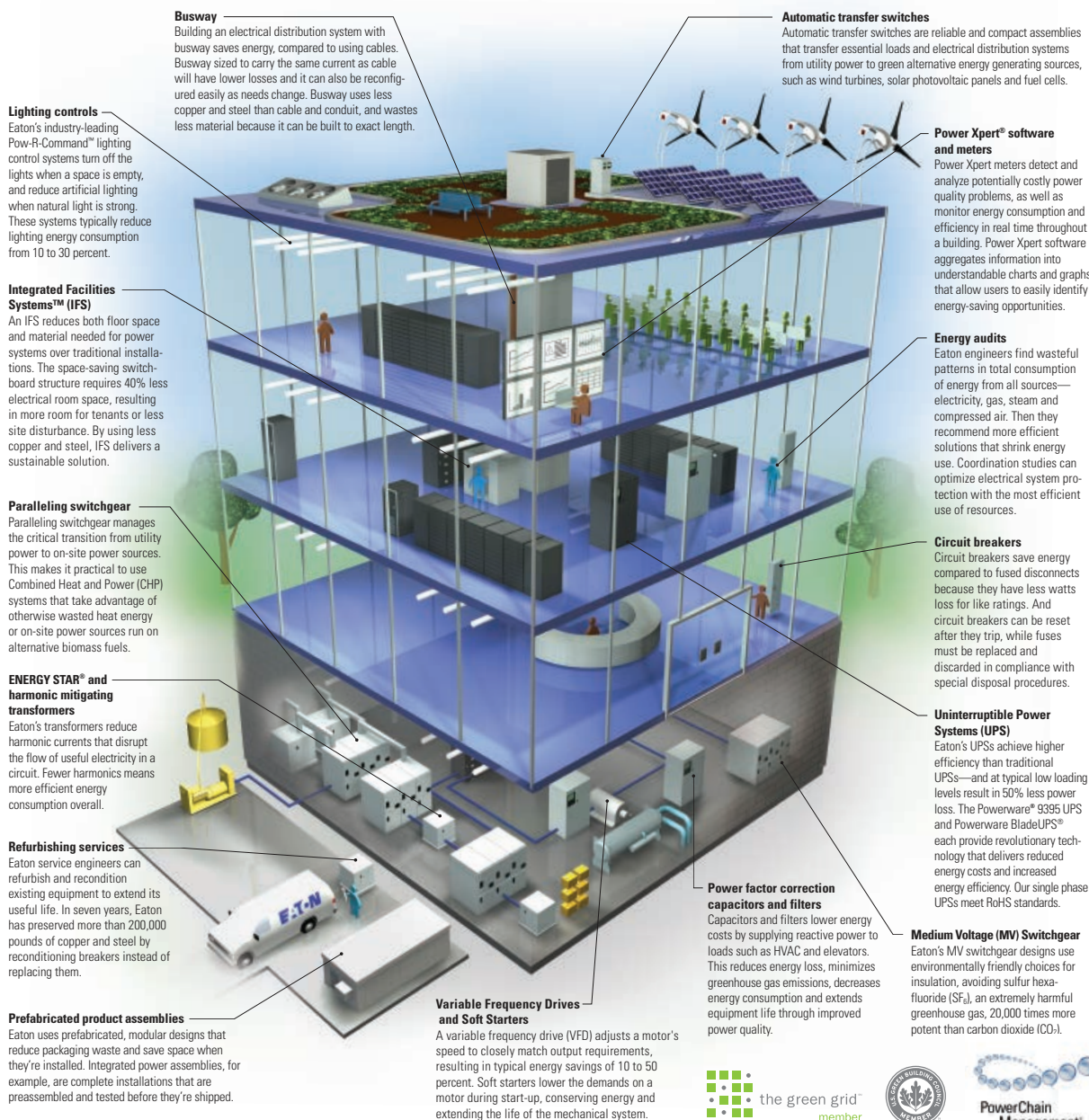
Eaton® can help your building go green

Going green—using natural resources wisely while reducing the impact of human activity on the environment—means more than just being environmentally responsible. It's good business, too.

Buildings play a key role in our impact on the environment. According to the U.S. Green Building Council (USGBC®), building operations account for 65 percent of the electrical energy used in the United States, which can really affect your bottom line.

Take a look at some ways Eaton's PowerChain Management® portfolio of Cutler-Hammer® and Powerware® products, services and information management tools can help your building go green. Any of these solutions may help buildings qualify for LEED® credits through the USGBC.

The Eaton difference: Inside the green building

Busway
Building an electrical distribution system with busway saves energy, compared to using cables. Busway sized to carry the same current as cable will have lower losses and it can also be reconfigured easily as needs change. Busway uses less copper and steel than cable and conduit, and wastes less material because it can be built to exact length.

Lighting controls
Eaton's industry-leading Pow-R-Command™ lighting control systems turn off the lights when a space is empty, and reduce artificial lighting when natural light is strong. These systems typically reduce lighting energy consumption from 10 to 30 percent.

Integrated Facilities Systems™ (IFS)
An IFS reduces both floor space and material needed for power systems over traditional installations. The space-saving switchboard structure requires 40% less electrical room space, resulting in more room for tenants or less site disturbance. By using less copper and steel, IFS delivers a sustainable solution.

Paralleling switchgear
Paralleling switchgear manages the critical transition from utility power to on-site power sources. This makes it practical to use Combined Heat and Power (CHP) systems that take advantage of otherwise wasted heat energy or on-site power sources run on alternative biomass fuels.

ENERGY STAR® and harmonic mitigating transformers
Eaton's transformers reduce harmonic currents that disrupt the flow of useful electricity in a circuit. Fewer harmonics means more efficient energy consumption overall.

Refurbishing services
Eaton service engineers can refurbish and recondition existing equipment to extend its useful life. In seven years, Eaton has preserved more than 200,000 pounds of copper and steel by reconditioning breakers instead of replacing them.

Prefabricated product assemblies
Eaton uses prefabricated, modular designs that reduce packaging waste and save space when they're installed. Integrated power assemblies, for example, are complete installations that are preassembled and tested before they're shipped.

Variable Frequency Drives and Soft Starters
A variable frequency drive (VFD) adjusts a motor's speed to closely match output requirements, resulting in typical energy savings of 10 to 50 percent. Soft starters lower the demands on a motor during start-up, conserving energy and extending the life of the mechanical system.

Automatic transfer switches
Automatic transfer switches are reliable and compact assemblies that transfer essential loads and electrical distribution systems from utility power to green alternative energy generating sources, such as wind turbines, solar photovoltaic panels and fuel cells.

Power Xpert® software and meters
Power Xpert meters detect and analyze potentially costly power quality problems, as well as monitor energy consumption and efficiency in real time throughout a building. Power Xpert software aggregates information into understandable charts and graphs that allow users to easily identify energy-saving opportunities.

Energy audits
Eaton engineers find wasteful patterns in total consumption of energy from all sources—electricity, gas, steam and compressed air. Then they recommend more efficient solutions that shrink energy use. Coordination studies can optimize electrical system protection with the most efficient use of resources.

Circuit breakers
Circuit breakers save energy compared to fused disconnects because they have less watts loss for like ratings. And circuit breakers can be reset after they trip, while fuses must be replaced and discarded in compliance with special disposal procedures.

Uninterruptible Power Systems (UPS)
Eaton's UPSs achieve higher efficiency than traditional UPSs—and at typical low loading levels result in 50% less power loss. The Powerware® 9395 UPS and Powerware BladeUPS® each provide revolutionary technology that delivers reduced energy costs and increased energy efficiency. Our single phase UPSs meet RoHS standards.

Medium Voltage (MV) Switchgear
Eaton's MV switchgear designs use environmentally friendly choices for insulation, avoiding sulfur hexafluoride (SF_6), an extremely harmful greenhouse gas, 20,000 times more potent than carbon dioxide (CO_2).

Power factor correction capacitors and filters
Capacitors and filters lower energy costs by supplying reactive power to loads such as HVAC and elevators. This reduces energy loss, minimizes greenhouse gas emissions, decreases energy consumption and extends equipment life through improved power quality.

the green grid™ member

PowerChain Management®

Eaton: A bigger impact on the marketplace, a smaller footprint on the world

Eaton believes that companies everywhere must answer the same question over the next decade: How can we sustain our growth, both profitably and responsibly? And we believe tomorrow's leaders will be the companies that master sustainable growth.

Eaton's commitment to sustainability is longstanding. We are a member of the U.S. Green Building Council, the Green Grid and the Green Suppliers Network, and we participate in the international Carbon Disclosure Project (CDP). As a member of the Business Roundtable's Climate RESOLVE initiative, we have pledged to reduce our greenhouse gas emissions intensity by 18 percent (adjusted for sales) by 2012. And, we published our first public sustainability report sharing our progress toward our sustainability goals in 2006.

Our operations put our beliefs about sustainability into practice. In 2007, we will begin measuring the performance of all of our facilities against our Global Management System of Environment, Safety, Security and Health (MESH), a unified system for managing our environmental, safety and health initiatives across the globe. We pursue a wide range of initiatives to improve our efficiency, conserve resources and protect the health and safety of our employees. And we're achieving results. Our new plant in Shandong province, China, has been praised as a model of environmentally conscious development. An energy conservation program at our truck transmission plant in San Luis Potosi, Mexico, reduced energy consumption by 40 percent. Over the past two years, our valve manufacturing plant in Searcy, Arkansas, has shrunk its generated waste by 70 percent. And we strive to help our customers go green. Our automobile engine superchargers help automakers use smaller, cleaner engines that deliver the horsepower consumers crave, plus the fuel efficiency they desire. Our Hybrid Power Systems boost fuel economy and reduce emissions in trucks and buses.

Eaton can help you operate a building in ways that are both smart and sustainable. To learn more, visit www.eaton.com/greenbuildings.

MCU0603R103KCT SMD Multilayer Ceramic Capacitor, 10000 pF, 50 V, 0603 [1608 Metric]

multicomp PRO

MLCC consists of a conducting material and electrodes. To manufacture a chip-type SMT and achieve miniaturization, high density and high efficiency, ceramic condensers are used.

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MPMLR50V104KX7RTB5 Ceramic Multilayer Capacitor, 0.1uF, 50V, Tolerance 10%, X7R, 5.08mm Pitch

multicomp PRO

Our Radial Leaded, Epoxy dipped Multilayer Ceramic Capacitors are build by Superior moisture and shock resistant epoxy coating can be supplied in bulk or taped & reel Package for automatic insertion in PCB.

Search
68AH8540 at newark.com

MPCC100V104KY5U Ceramic Disc Capacitor, 0.1uF, 100V, 10%, Y5U

multicomp PRO

Ceramic Disc Capacitor is radial lead, 10% capacitance tolerance, 5mm lead spacing and 85°C operating temperature

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MCESL35V107M6.3X7.7 SMD Aluminum Electrolytic Capacitor, 100 µF, 35 V, 1000 hours @ 85°C, Polar

multicomp PRO

The capacitors are designed for surface mounting on high density PC boards. Supplied with carrier taping for automatic mounting machine and guaranteed 2,000 hours at 85°C

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MP000266 SMD Chip Resistor, 6.8 ohms, 5%, 1.5W

multicomp PRO

Thick Film SMD resistors in a 2512 [6432 Metric] case, 500V, and AEC-Q200 Automotive Qualification Standard

Search
41AH9848 at newark.com

MCCSM12FTDTR033 SMD Current Sense Resistor, 0.033Ohms, 1W

multicomp PRO

Metal Foil SMD resistor in a 2512 [6432 Metric] case, 1% resistor tolerance. Designed for current sense circuits in power electronic systems

Search
72W2087 at newark.com

MP006115 Metal Oxide Axial Lead, 4.7Ohm, 10W

multicomp PRO

Metal Oxide Resistor with a 5% tolerance, operating temperature to +155°C, and 500V max working voltage.

Search
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MCF 0.25W 0R Zero Ohm SMD Resistor

multicomp PRO

Carbon Film Zero Ohm Resistor, axial lead jumper, rated at 250mW and 250V max working voltage.

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38K0323 at newark.com

MP740137 4-in-1 Soldering Rework Station

multicomp PRO

This rework station, includes functionality for soldering, hot air, desoldering and electronic tweezers. Soldering station is 130W to 500°C, desoldering is 150W to 500°C, and hot air has 50W heating component/25W air pump to 500°C

Search
72AC8885 at newark.com

MP740139 80W Soldering Station

multicomp PRO

This is a 80W digital soldering station heats up fast and provide a fast recovery time. ESD safe with a clear and intuitive LCD display for easy use. It has a temperature up to 450°C and comes with Cleansing Sponge, Soldering Iron & Stand

Search
39AH0164 at newark.com

MP740686 US 65W Soldering Station

multicomp PRO

This is a 65W economical soldering station with LCD display screen making easy control visualization. MCU controlled temperature of soldering iron can be easily adjusted with high precision.

Search
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MP740757 40W Soldering Iron

multicomp PRO

This is a 40W soldering iron with a US AC 115V plug and heats up to 480 °C

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MP740758 15W Soldering Iron

multicomp PRO

This is a 15W soldering iron with a US AC 115V plug and heats up to 350 °C

Search
26AJ4715 at newark.com

MP740765 200W Soldering Iron

multicomp PRO

This is a 200W soldering iron with a US AC 115V plug and heats up to 550 °C. It is a heavy duty switched soldering iron with Chisel point tip, mini stand and plastic handle.

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26AJ4722 at newark.com

MP740415 US Desoldering Station

multicomp PRO

This is a 90W desoldering station with a switchable source 220V or 115V with a US plug. The heating temperature is 480°C and comes with stand, desoldering gun and three desoldering tips.

Search
26AJ4706 at newark.com

MP750510 US 35Mhz, 2 CH, Arbitrary Waveform Generator with TFT LCD Screen

This AWG has 6 basic waveforms and 152 built-in arbitrary waveforms with modulation functions: AM, FM, PM, FSK, 3FSK, 4FSK, PSK, OSK, ASK, DSB-AM, QPSK, SUM, BPSK, PWM, Sweep and Burst etc

Search
53AJ6162 at newark.com

MP750511 US 60MHz, 2 CH Arbitrary Waveform Generator, with TFT LCD Screen

This AWG has 6 basic waveforms and 152 built-in arbitrary waveforms with modulation functions: AM, FM, PM, FSK, 3FSK, 4FSK, PSK, OSK, ASK, DSB-AM, QPSK, SUM, BPSK, PWM, Sweep and Burst etc

Search
53AJ6163 at newark.com

MP750666 US 25MHz, 2 CH, Arbitrary Function Generator with 4.3Ó TFT LCD display

This AFG has a 6 digit high precision frequency meter compatible with TTL level signal and has sine, square, ramp, pulse, noise, DC, arbitrary waveforms and AM, FM, PM, ASK, FSK, PSK, PWM modulations.

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MP750667 US 5MHz, 1 CH, Arbitrary Function Generator with 4.3Ó TFT LCD display

This AFG has a 6 digit high precision frequency meter compatible with TTL level signal and has sine, square, ramp, pulse, noise, DC, arbitrary waveforms and AM, FM, PM, ASK, FSK, PSK, PWM modulations.

Search
92AH3443 at newark.com

MP720105 US 200MHz, 2+1 CH Digital Oscilloscope

This DSO featuring 1GS/s sampling rates, 8-bits vertical resolution, an 8" color LCD screen, and decoding kit (RS232, SPI, I2C, CAN trigger/ decode), and supports Edge, Video, Pulse, Slope, Runt, Windows

Search
74AH3012 at newark.com

MP720107 US 300MHz, 2+1 CH Digital Oscilloscope

This DSO featuring 1GS/s sampling rates, 8-bits vertical resolution, an 8" color LCD screen, and decoding kit (RS232, SPI, I2C, CAN trigger/ decode), and supports Edge, Video, Pulse, Slope, Runt, Windows

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MP710082 US Single Output, Adjustable 80W Power Supply

This small 80W auto ranging laboratory power supply has a 0.5V to 36V and 0 to 5A output.

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42AH0481 at newark.com

MP710087 US Single Output, Adjustable 180W Power Supply

This 180W linear benchtop DC power supply with outputs of 0-60V / 0-3A x 1CH and has a 3.7" TFT LCD displa

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42AH0484 at newark.com

MP710254 Single Output, Adjustable Switch Mode Power Supply

This a 90W switching DC power supply with outputs 0-30V and 0-3A.

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79X4273 at newark.com

MP730624 Digital Multimeter with Bluetooth, 1kV, 20A, 20000 Count,True RMS

This DMM measures AC/ DC Current, AC/DC Voltage, Capacitance, Duty Cycle, Frequency, Resistance, Temperature

Search
93AH0320 at newark.com

MP730651 Digital Multimeter, 1kV, 10A, 6000 Count, True RMS

This DMM measures AC/DC voltage/current, resistance, diode, continuity, capacitance, frequency and duty ratio.

Search
90AH9782 at newark.com

MP730657 Digital Multimeter with Datalogging, True RMS, 1kV, 10A, 60000 Count

This DMM can be used to measure the parameters such as AC voltage and DC voltage, AC and DC current, resistance, conductance, diode, continuity, capacitance, temperature and pulse width.

Search
90AH9786 at newark.com

MP760605 Digital Clamp Meter, 400A, 600V, True RMS

This clamp meter has a 6000 count display and measures AC Current, AC/DC Voltage, Continuity, Diode, Resistance, Capacitance, Temperature and Frequency.

Search
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MP760607 Digital Clamp Meter, 400A, 600V, True RMS, 28mm jaw opening, 28mm jaw opening

This clamp meter has a 6000 count display and measures AC and DC Current, AC/DC Voltage, Continuity, Diode, Resistance, Capacitance, Temperature and Frequency.

Search
13AJ0605 at newark.com

MP780002 Temperature Calibrator with 6-digit display

This Calibrator can provide voltage, resistance, 10 kinds of the thermocouple and 4 kinds of

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