

Network With Us

Contemporary Controls is your ideal partner for applying network technology to your automation project. With over 30 years of experience in electronics design, development and manufacturing, Contemporary Controls has the expertise in guiding customers through the network maze. With locations around the world, and a reputation for customer service, Contemporary Controls is an integral component in your supply chain.

Constanting of the second second



CTRLink[®] Industrial Ethernet

Ethernet has rapidly become the network of choice when automating processes due to its high-speed, familiarity among users, and its ability to easily connect to the Internet. However, the environment for automation equipment can be demanding. The equipment must be robust, reliable, and easy to install, maintain and use. Office-grade equipment will not do.

The performance of equipment can range greatly. For simple systems, **plug-and-play** equipment will suffice. These products will operate "right out of the box" and can be put into service without adjustments.

The more demanding applications require **managed switches** that support the SNMP protocol—providing data and reporting on the health of the network. The most advanced networking functions such as redundancy, IGMP snooping, virtual LANs and priority tagging can be found in Contemporary Controls' managed switches.

In between these two extremes are the **smart switches** that provide many of the advanced networking features users want without the complexity of a managed switch and the SNMP protocol.

For long runs up to 15 km and inherent immunity to electromagnetic interference, use switches with fiber ports or media converters. **Media converters** make the copper to fiber transition quick and efficient.

Routers connect two networks together, allowing the passing of necessary traffic while blocking all other traffic.

Some industries require agency approvals beyond what is normal for Ethernet connectivity products. Contemporary Controls has experience designing **specialty products** to meet the most demanding of applications including UL 864 and UL 1604.



-1975 1975 1979 1982 1984 1986 1987 Developed **Developed first** Introduced **Received Arthur** Published the Founded as an Began developing **STD-BUS ARCNET** Andersen & Co. ARCNET Factory engineering the first microprocessormicroprocessor-STD-BUS based Cutoff adapter module **Small Business** LAN Primer and and systems based Computing Registration microcomputer Award founded the integration company Ratiometer modules System ARCNET Trade Association

Worldwide Design

With our long history of developing products for diverse automation industries, Contemporary Controls has a rich inventory of intellectual property that can be tapped for the next generation automation project. In addition to communications hardware design that includes hubs, switches, routers and gateways, the company is skilled in firmware development and is versant in open system protocols and operating systems. Modern embedded system design requires a thorough knowledge of regulatory requirements in order to comply with the target industry and worldwide markets. Contemporary Controls can add its skill and knowledge to a customer's project for mutual benefit.

Although project management responsibility resides at headquarters, the best technical resources are recruited around the world. Schematic capture, circuit simulation, board layout, EMC compatibility, regulatory compliance, product verification and validation are all part of a systematic process. Prototyping is accomplished using the company's manufacturing resources. With manufacturing in the same building, designs can quickly be verified, greatly reducing time-to-market.

Expert Support

What we design we support. Technical support specialists reside around the world in order to ensure that our customers are provided excellent assistance wherever their projects exist.

As part of our effort to educate the industry on the merits of Industrial Ethernet, Contemporary Controls launched the virtual Industrial Ethernet University (IEU). Students from around the world take on-line courses, complete tests on the material and gain a certificate of completion upon a successful graduation. All material is developed by Contemporary Controls' staff and invited experts from all over the world with the intent of providing content that is vendor-neutral.





1989 Introduced first ARCNET modular hub





1995 Introduced first ARCNET PC Card adapter



1997 Established Contemporary Controls Ltd. in Coventry, United Kingdom



1998 Introduced Extend-A-Bus CAN bus extender

Worldwide Manufacturing

What we design we make. Contemporary Controls manufactures its designs in order to ensure the highest level of quality while being responsive to customers' changing requirements. The company offers lead-free surface mount (SMT) equipment in two locations—the United States and China. Both locations use the latest in Panasonic placement machines capable of accurately placing components as small as o603. Both lines can be programmed using the same Panasonic configuration software allowing for the transfer of manufacturing data between locations. The reflow ovens are identical allowing the sharing of temperature profile data. A design can be developed in the US, prototyped at the same location and transferred to a low-cost area for eventual production with ease.

For low-volume, high-mix products or for those products requiring Made in America certification, the Downers Grove plant meets your needs. This plant is used for prototyping and proofof-concept designs.

For higher volume, cost-sensitive requirements, our Suzhou, PRC plant offers the highest production rate as well as logistics support. As a wholly-foreign owned enterprise (WFOE) under US leadership, the Suzhou plant can offer other services such as component sourcing to further reduce costs while ensuring that your intellectual property is protected.

Continuous efforts to reduce costs, improve quality and improve customer service are coordinated between the two plants as part of the company's lean initiative.

Trademarks

Contemporary Controls, ARC Control, ARC DETECT, EXTEND-A-BUS, RapidRing, and CTRLink are registered trademarks or trademarks of Contemporary Control Systems, Inc. Specifications are subject to change without notice. Other product names may be trademarks or registered trademarks of their respective companies.



2000 Introduced first Industrial

Ethernet products



2002 Established Contemporary Controls (Suzhou) Co. Ltd. in China and Contemporary Controls GmbH in Eisleben, Germany



2003 Established Industrial Ethernet University

Industrial Ethernet Univers<u>ity</u>



Introduced

ARCNET to

router/gateway

Ethernet



2007 Introduced BAS Remote for building automation



ARC Control – ARCNET[®] for Control

ARCNET's longevity testifies that it is regarded as one of the most robust industrial networking technologies available. The realtime performance of its token-passing protocol along with its simplicity of use makes it ideal for embedded applications. Contemporary Controls is the industry leader in ARCNET connectivity providing wiring hubs, network adapters, network analyzers and gateways to Ethernet. We wrote the book on Industrial ARCNET and founded the ARCNET Trade Association.

Controller Area Network (CAN)

Controller Area Network (CAN) is widely used in automotive and industrial automation applications and is the basis for communicating with the CANopen and DeviceNet protocols. Contemporary Controls makes network adapters and bus extenders for this rugged technology. Extend-A-Bus allows CAN-based networks to expand beyond their theoretical limit without loss in performance.

BAS Automation

Contemporary Controls has been in the background supporting building automation OEMs' ARCNET and Ethernet products for years by addressing the unique needs of this industry. The industry is embracing Ethernet connectivity to Direct Digital Controllers (DDC) along with open protocols. Contemporary Controls' BAS Remote supports the BACnet/IP protocol while providing universal input/output connections to temperature sensors, damper actuators, as well as other common HVAC devices. Besides standard ARCNET hubs and Ethernet switches, the company provides protocol-aware routers unique to the building automation industry.



Our Commitment to the Environment

We adhere to the goals of reduced energy consumption, reduced amount of hazardous materials in our environment, greater recycling, reduced waste in landfills, and the use of fewer natural resources. We are a responsible partner in facing this challenging issue.

In keeping with the above policy, Contemporary Controls has successfully developed a 10-point plan to restrict the use of hazardous substances in electrical and electronic equipment in line with the requirements stated in the European Union's RoHS Directive. The plan ranges from identifying banned substances and segregating leaded inventory from unleaded—to conducting internal audits to verify that established RoHS compliance procedures are being followed. The company is also in compliance with the WEEE Directive which minimizes the impact on the environment due to industrial waste.

Our Quality Policy

Our **MISSION** is to develop, manufacture and market industrial networking technologies to the benefit of our automation customers worldwide.

Our **VISION** is to be regarded by our customers as experts in the industrial networking technologies we support.

Our **VALUES** are the foundation of how we conduct business.

- Our customers depend upon us to deliver products and services that meet their needs. Their success provides us the means to exist.
- Our suppliers are important to our success and, therefore, we treat them as partners.
- Each employee is considered a professional, independent of position, and contributor to the success of the organization.
- We are all members of a working team, striving to develop innovative products, technologies, and processes.
- We stress quality in everything we do and know we can do better through continuous improvement efforts.
- The ethical way of doing business is the only way.

Worldwide Locations



Contemporary Control Systems, Inc. 2431 Curtiss Street Downers Grove, IL 60515 USA

info@ccontrols.com www.ccontrols.com www.ctrlink.com

Contemporary Controls Ltd Sovereign Court Two University of Warwick Science Park Sir William Lyons Road Coventry, CV4 7EZ United Kingdom







Contemporary Controls (Suzhou) Co. Ltd 11 Huoju Road Science & Technology Park New District, Suzhou PR China 215009

info@ccontrols.com.cn www.ccontrols.com.cn www.ctrlink.com.cn

Contemporary Controls GmbH Markt 54 D-06295 Lutherstadt Eisleben, Germany

> info@ccontrols.de www.ccontrols.eu www.ctrlink.de

