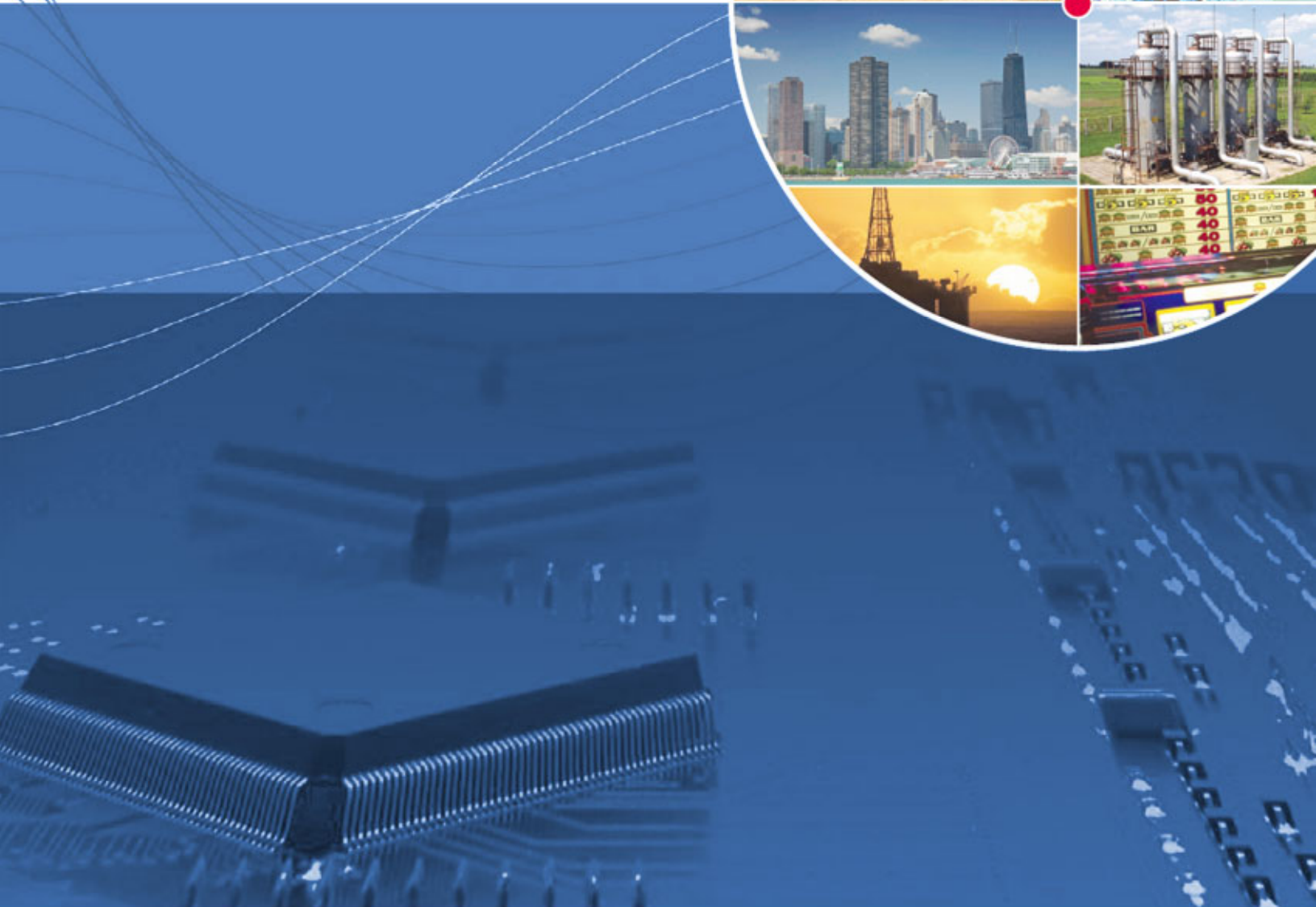


Network With Us

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.



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
Founded as an engineering and systems integration company



1975
Developed the first microprocessor-based Computing Ratiometer



1979
Began developing STD-BUS microcomputer modules



1982
Developed first microprocessor-based Cutoff Registration System



1984
Introduced STD-BUS ARCNET adapter module



1986
Received Arthur Andersen & Co. Small Business Award



1987
Published the ARCNET Factory LAN Primer and founded the 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.



Altium Designer

Nut/OS

Embedded Linux

Paradigm C++

Camtastic 2000
Gerber Editor

Open Source

MSDN

JTAG

AutoCAD

Environmental
Test Chamber

EMC

Microsoft Visual Studio

PADS Power PCB

Protel 99SE

OrCAD

Eclipse Editor

Kernel drivers

In-circuit Emulator



1989
Introduced first
ARCNET modular
hub



1992
Appointed
Andover
Controls
Preferred
Supplier



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 0603. 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 proof-of-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.



1999
Appointed Johnson
Controls Preferred
Supplier



2000
Introduced
first Industrial
Ethernet products



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



2002
Received Control
Engineering
Editors' Choice
Award for its
CTRLink products



2003
Established
Industrial
Ethernet
University



2005
Introduced
ARCNET to
Ethernet
router/gateway



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 real-time 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



info@ccontrols.co.uk
www.ccontrols.eu
www.ctrlink.co.uk



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