

COMMUNICATIONS PRODUCTS
for the **Electric Power, Transmission
& Distribution** Industry





is a US-based

manufacturer of

environmentally-

ruggedized fiber

optic, wireless, and

copper media-based

Ethernet, serial data,

contact closure, T-1/E-1

telephony, audio, and

video transmission

equipment.

ComNet equipment

is the product of

choice when designing

and building highly

reliable communications

networks for deployment

in harsh or difficult

industrial and out-of-

plant environments.

ComNet is based in Danbury, Connecticut, USA, where the engineering, manufacturing, product development, sales, administration, and other key management components of our company are located. ComNet also has a major sales, service, and support facility in the United Kingdom that services Europe, the Middle East, Africa, Asia, Australasia and South America.

At ComNet, we pride ourselves on the superb level of support we offer to our customers and channel partners. ComNet provides the highest level of pre- and post-sales technical and applications engineering support, to assist you in designing and specifying the optimal and most cost-effective communications solution for virtually any application.

The Electric Power, Transmission, and Distribution Industry

With the global demand for reliable electric power service continuing to increase, electrical utilities are finding themselves under pressure to deliver power to their customers in the most reliable and efficient means possible. The creation and evolution of smart grid technology has been a significant step forward to achieving these goals.

Although low-speed serial data and T-1/E-1 telephony transmission equipment is still widely used in many legacy systems, the industry is clearly making the transition to high-speed fiber optic-based Ethernet networks. The open architecture of Ethernet makes it an ideal communication medium for interconnecting almost any kind of compatible equipment onto the users network, and provides ease of integration between the utilities substation SCADA, surveillance/security, and enterprise networks, to one common managed integrated platform.

Electrical substation automation has become a key component of the smart grid, and mission-critical communications equipment is required to ensure reliable operation, control, and status reporting of the various parameters associated with these facilities, such as protective relaying, remote metering, power monitoring, switching, and for providing IED and RTU connectivity.

The electrical utility and transmission and distribution industry utilizes specialized

communications and networking equipment designed to operate reliably in extremely difficult environments. Characterized by wide variations in operating temperature, high humidity, severe voltage transient and EMI conditions, and exposure to airborne and particulate matter, these environments demand communications equipment that is specially designed for the task at hand, including highly robust design and construction, to ensure the network remains as reliable as possible.

The industry requires that communications equipment be rated to the requirements of IEC 61850-3 and IEEE 1613 Class 2, and ComNet continues to introduce new products that meet or exceed these requirements.

Perimeter security, surveillance, and monitoring for substations, switchyards, remote and unattended power generation facilities, and many other high-value/mission-critical assets has become a major concern for many utilities, for reasons of the threat of terrorism, theft of material and other valuable assets, and vandalism. ComNet offers a wide range of out-of-plant rated fiber optic, wireless, and copper media-based communication equipment for CCTV video transmission, access control, and perimeter monitoring.

ComNet Ethernet products are designed for use in these demanding security-related applications.

ComNet Ethernet Products meet or exceed industry standards IEC 61850-3 and IEEE 1613 Class 2, and we continue to introduce new products exceeding these requirements.



Managed and Unmanaged Ethernet Switches, with and without PoE

Serial Data & Contact Closure Fiber Optic Transmission Equipment

Wireless Ethernet (IEEE 802.11G)

Media Converters, with and without PoE

T-1/E-1 Telephony

High-Quality Fiber Optic Video Transmission Products

Industrial Security & High-Value Asset Protection

ComNet is the leading supplier of communications and networking equipment for the protection, surveillance, and monitoring of critical production and manufacturing facilities and assets in the public and private sectors, including electric power

generating stations, nuclear fuel reprocessing plants, harbors, ports of entry, airports and transportation centers (including light and heavy railway stations), and the rapidly growing market of electrical substation surveillance. With the advent of IP video cameras, video

for surveillance applications may now be seamlessly integrated onto any ComNet-based Ethernet network, along with VoIP telephony, access control, wireless access points, and any other Ethernet-compatible equipment.

ComNet - A US-Based International Company Supporting You Locally

ComNet - Your worldwide source for communications network solutions. ComNet is based in the USA, with offices and product distribution locations throughout the world. ComNet provides our customers with optimal solutions and the support you need, when you need it.

ComNet - Speaks your language, and we communicate on a global basis. ComNet sales staff are fluent in German, Russian, Italian, Spanish, Portuguese, French, Greek, Arabic, Mandarin, Malay, Urdu, Hindi, Gujarati, and Afrikaans, furthering our ongoing commitment to customer support at the local level.

ComNet: Proudly Designed, Built, and Supported in the USA!

LIFETIME WARRANTY  **The ComNet Lifetime Warranty:**
Providing the Lowest Equipment Life-Cycle Costs in the Industry

ComNet is so confident in the long-term reliability of our equipment when fielded in the typical unconditioned, out-of-plant electrical substation or industrial operating environment that virtually all of our products are provided with our exclusive Lifetime Warranty. If a Lifetime Warranty product ever fails, we will repair or replace that product for the lifetime of your installation and at absolutely no cost. No questions asked!

Systems Design and Application Center

ComNet Design Centers with applications engineering support are located in the US and the UK, and offer free technical assistance for any and all communications system design challenges. Pre- and post-sale applications and technical support are available 18 hours a day, so solving your transmission equipment challenges remain easy and convenient.

To reach the Design Center, call 203-796-5300, toll free at 888-678 9427 in the US, or +44 113 307 6400 worldwide or email designcenter@comnet.net.



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