eLAN™

The eLAN™ Universal DNP Gateway (UDG) is an off-the-shelf solution to a wide range of applications in systems using DNP3, including:

- Data concentrator
- Serial to Ethernet (TCP/IP or UDP/IP) conversion
- Device proxy server
- Front end processor / sub master
- Poll acceleration
- Multi-master support
- DNP Router
- Encryption, using SSL
- Authentication, using PKI

The eLAN UDG is based on the robust, flexible Linux architecture, and is available on a variety of diskless hardware platforms, and I/O configurations. The eLAN Configurator allows rapid configuration and deployment of UDG systems. The eLAN Universal DNP Gateway Application Guide provides additional details on applying the UDG in different real-world configurations.

Expansion Capabilities

The Universal DNP Gateway may be expanded by adding additional applications from RuggedCom's eLAN™ family, including:

DNP3	IEC 870-5-101/103	Modbus	Harris 5000/6000
Siemens Sinaut	SEL Fast Message	Telegyr	

Additional RTU/IED protocols

This is the core of the eLAN™ application family created to address specific protocol conversion and translation issues related to RTUs, protection relays, PLCs, DFRs and other utility IEDs. Typical protocol support includes all of the following, along with many lesser-known formats:

Enterprise application interfaces (OPC, ODBC)

The eLAN™ ODBC server provides open database connectivity to any ODBC compliant application. All current or historical data can be accessed from the eLAN™ server and brought directly into desktop applications such as Microsoft Access and Excel for trending and reporting.

The eLAN™ OPC server provides a standards-based mechanism for providing real-time substation data to any OPC client application, such as OSIsoft's PI data historian. eLAN™'s implementation of OPC facilitates a bi-directional interface to PI that is easily configured and maintained.

RuggedCom's eLAN™ family includes a broad range of software applications to facilitate the connection of enterprise information systems to any device, anywhere, at any time. eLAN™ products may be deployed in the substation, at the control center, or elsewhere, to assist in accessing substation data. eLAN™ applications include protocol conversion, security, open data access (OPC, ODBC), and automation. Please visit www.ruggedcom.com/ruggedsolutions for more information.

RUGGEDCOM ISO 9001 REGISTERED

Ordering Information

UDG-aaa-b-c

Where:

a is Product Number model
(100, 300, or 700, from above table)

b is quantity of serial ports
(within ranges defined in above table)

c is power supply

- For UDG-100: this is blank
- For UDG 300:
  - option 1 = external supply required, such as eLAN™ STM
  - option 2 = internal 120 VAC supply
- For UDG-700:
  - option 1 = external supply required, such as eLAN™ STM
  - option 2 = internal 120 VAC supply
  - option 3 = internal redundant 120 VAC supply

eg: UDG-300-16-2 is a 2 rack unit system, with 16 serial ports and an internal 120 VAC power supply.

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For additional information on our products and services, please visit our web site at: www.RuggedCom.com