

Introduction:

The VCL-3000 is a compact, versatile IEC-61850-3 compliant Data Concentrator Unit (DCU) which may be used to build Automatic Meter Reading (AMR) and Advanced Metering Infrastructure (AMI) to collect information and metering data from multiple meters and forward the data to a central server of the power utility over wired Ethernet, or wireless GSM (GPRS, 2G,3G, LTE) links.

The VCL-3000 can securely aggregate data from up to 40 meters and transmit the information to the centralized utility server. The VCL-3000 can be tailored to meet a very wide variety of data collection requirements since it provides several forward (metering side) and backward (network side) communication interfaces.

Specifications:

Network Communication Interfaces:

Network - Wired	10/100 Mbps Port (RJ45)
Network - Cellular	2G/3G/4G
Wireless (short range)	Wi-Fi
Protocol	DLMS or MBUS (Factory-selectable)

Metering Side Interfaces:

Serial Port	4 x RS-232/485/422 ports, Factory-selectable
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Configuration Interfaces:

USB	USB 2.0 host x 1 (USB Type B)
LAN	10/100 Mbps Port (RJ45)

Time Synchronization:

GNSS	GPS, GNSS (GPS plus GLONASS) - (Integrated Receiver)
NTP	Network Time Protocol

Storage:

eMMC	4GB (fixed)
uSD	32GB (removable)

Power:

Input Voltage	12VDC / 24VDC / 48VDC
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Additional Power Supply Options (DIN Rail):

AC	110VAC, 60HZ / 240VAC, 50Hz
DC	110VDC, 220VDC

Environmental:

Temperature	-10 to 55C (14 to 131F)
Humidity	95%. R.H. Non-condensing

Chassis:

Shielded Industrial. Aluminium.	DIN Rail Mounting
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Ordering Information:

Part#: VCL-3000-DCU-MBUS

Description:

VCL-3000, Data Concentrator Unit (DCU)
IEC-61850-3 compliant, MBUS Protocol
DIN Rail Mounting Version

Supports:

- Network Communication Interface
 - 10/100Mbps Port (RJ45) (Wired)
 - 2G/3G/4G (Cellular)
 - Wi-Fi (Wireless short range)

Metering Interface

- 4 x RS232 / RS485 Serial Ports (User-selectable)

* Add Power Supply Option from below

Part#: VCL-3000-DCU-DLMS

Description:

VCL-3000, Data Concentrator Unit (DCU)
IEC-61850-3 compliant, DLMS Protocol
DIN Rail Mounting Version

Supports:

- Network Communication Interface
 - 10/100Mbps Port (RJ45) (Wired)
 - 2G/3G/4G (Cellular)
 - Wi-Fi (Wireless short range)

Metering Interface

- 4 x RS232 / RS485 Serial Ports (User-selectable)

* Add Power Supply Option from below

*** Add Power Supply Option**

AC220	1 x 100-240V AC Power Supply Input
DC012	1 x 12V DC Power Supply Input
DC024	1 x 24V DC Power Supply Input
DC048	1 x 48V DC Power Supply Input
DC110	1 x 110V DC Power Supply Input
DC220	1 x 220V DC Power Supply Input

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