



ORION TELECOM NETWORKS INC.

VCL-3000, Data Concentrator Unit (DCU)

Product Brochure & Data Sheet

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Introduction

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) architectures to collect information and data from multiple meters and forward the data to the power utility.



**VCL-3000,
Data Concentrator Unit (DCU)**

The **VCL-3000** can securely aggregate data from a manageable number of meters and relay the information to the centralized utility servers. The VCL-3000 can be tailored to meet a very wide variety of concentrator requirements since it provides several forward (metering side) and backward (network side) communication interfaces.

Specifications:

Configuration Interfaces:

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

Network Communication Interfaces:

| | |
|---------------------------|-------------------------|
| Network - Wired | 10/100 Mbps Port (RJ45) |
| Network - Cellular | 2G/3G/4G |

Metering Side Interfaces:

| | |
|-------------------------------|--|
| Wireless (short range) | ZigBee/LORA/WI-FI |
| Serial Port: | 4 x RS-232/485/422 ports, Factory-selectable |

Time Synchronization:

| | |
|--------------|------------------------------|
| GNSS: | GPS, GNSS (GPS plus GLONASS) |
| NTP | Network Time Protocol |

Storage:

| | |
|---------------|------|
| uSD: | 32GB |
| eMMC : | 4GB |

Power:

| | |
|-----------------------|-----------------------|
| Input Voltage: | 12VDC / 24VDC / 48VDC |
|-----------------------|-----------------------|

Additional Power Supply Options (DIN Rail):

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

Environmental:

| | |
|---------------------|----------------------------|
| Temperature: | -40 to 85°C (-40 to 185°F) |
| Humidity: | 95%. R.H. non-condensing |

Chassis:

| | |
|-----------------------------|-------------------|
| Shielded. Aluminium. | DIN Rail Mounting |
|-----------------------------|-------------------|

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