



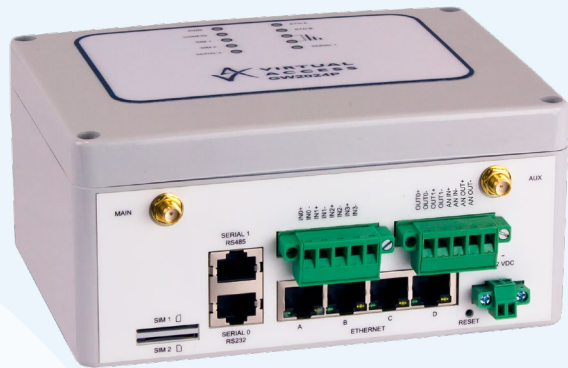
Compact Substation Gateway

CRITICAL APPLICATION CONNECTIVITY

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Providing resilient and secure connectivity for tens of thousands of substations worldwide.
Call us anytime to discuss our experience in Distribution System Operators (DSOs) worldwide.

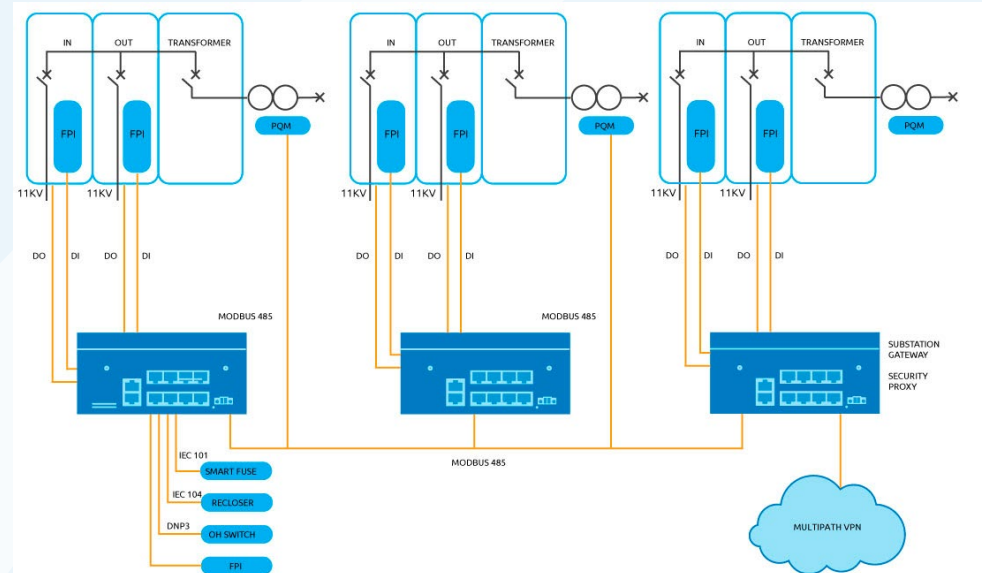
Highly Integrated Secure System



Key benefits:

- Cyber security to IEC62351
- IEC 104 application level firewall
- Integrated RTU & SCADA gateway for applications such as line switching & FPI
- IEC 101, IEC 104, DNP3, IEC 61850, Modbus
- Optional HMI
- Substation hardened and certified
- Utility optimised management system
- Resilient multi-path connectivity
- Remote I/O expansion

Substation Remote I/O over RS485 Bus



Power Grid Upgrade

Power grids need to be upgraded to allow for new dynamic loads such as electric vehicles and new unpredictable sources such as renewables. Upgrading the existing static infrastructure to cater for these loads and sources can be prohibitively expensive.

Dynamic Grid

A more cost effective solution is to create a dynamic grid that can be adjusted according to the observed conditions. This means extending distribution automation, SCADA and smart grid infrastructure from thousands to tens of thousands of substations. However, the business case is difficult using traditional chassis-based RTU and SCADA systems due to installation, deployment and operational costs.

Virtual Access Solution

The Virtual Access Compact Substation Gateway is a cost effective, secure and scalable way to support distribution automation, and SCADA for applications such as line switching, FPI and RMU management.

GW204P Gateway Specification

I/O	4 DI +2DI/DO +2DO, 4 DI +2DI/DO +AI/AO
Security	IEC 62351, application level firewall
Serial	RS232, RS485
Protocol	IEC 101, IEC 104, DNP3, IEC 61850, Modbus
Remote I/O bus	RS485 Modbus
Substation hardened & certified	Yes
Management system	Optimised for large scale (tens of thousands of sites) utility deployments
HMI	Optional HMI on USB serial port
Power	12, 24 or 48V DC
Fabrication	IP33, polycarbonate, DIN rail mountable
Dimensions	W160mm x H120mm x D75mm