Wireless, cloud based IoT gateway





Managing a network of field assets has never been easier with the NanoULTRA – III *Lite*. Its high-resolution data transfer happens seamlessly and securely from multiple assets to our secure cloud platform, the <u>CDLSmartHubTM</u>, where the raw data can be turned into actionable insights.

From the <u>CDLSmartHub™</u> you can configure and manage assets, set alarms, view audit trails, integrate and export data, view trends, visualise data and integrate 3rd party analytics. Investing in the NanoULTRA - III *Lite* and CDLSmartHub™, gives you access to a fully integrated end-to-end IoT solution to effectively manage your assets.

Key Features

- Seamless cellular communication with the CDLSmartHub™ asset cloud platform.
- Simple installation and configuration, achievable at scale with non-technical employees
- RS485 communication with toolset to quickly set up Modbus communications (one off configuration charges apply – see price list)
- Digital and Analogue i/o's available (CDL also offer wide range of expansion modules)
- Worldwide accreditations offering a truly global, enterprise grade solution
- Tracking capabilities
- Firmware Over the Air (FOTA) for agile innovation and system management





Application Examples

Single and multi-site installations • nationally and internationally • Embedded solutions for original equipment manufacturers (OEM) • Energy & carbon management systems • Voltage optimisation • Water quality instrumentation • Process monitoring and control • Corrosion monitoring • Clean renewable & Hybrid power • Portable generators • UPS & emergency power systems • Smart building controls • Smart grid transformer monitoring





Physical

Aluminium housing 74.5 x 25 x 64.5mm Weight 130g

Power Supply

9 – 30 VDC, 4 pin DC connector

Standard On-board Inputs and Outputs

2 x Configurable Inputs/Outputs.

Digital input 0 - 6 V detected as logic low,
8 - 30 V detected as logic high.

Open collector output, max output 30 V, 300 mA

Communication connectivity

RS485

Enhanced tool set for Modbus register mapping

Location

Cell mast location

Approvals

CE/RED, EAC, RoHS, WEEE

Modem

2G/3G/4G 4G (LTE Cat1)

On board Ethernet

No

LEDs and Button

3 x connection status (2G/3G/4G 3 x Signal connection strength 1x Power

Connectors

1 x 4 pin DC 1 x 6 pin RS485 1 X SMA for LTE*(+ Micro USB)

Environmental

-40 to +75 °C (operational)

SD Card

No

SIM Holder

Single Sim





On board memory (for when communications are interrupted)

200 modbus registers, sampled at a 20 second sample rate can be stored for 24 hours before being over written

Description	Part code
Modbus RTU to 8 DO Digital Output, Power Relay module	003-ADI-001
Modbus RTU to 16 DI Digital Input module	003-ADJ-001
Modbus RTU to 8AI (0-10V),2AO(0-10V), 4 DO module	003-ADK-001
Modbus RTU to 8 AI Analogue module	006-ACZ-001

Antenna and Connector

 $1 \times LTE$ antenna (magnetic mount, SMA male, 3 m cable FOTA

All firmware is FOTA enabled (Firmware upgrade over the air)

Software CDLSmartHub™ IoT platform connectivity **Expansion signal conditioning module options available**





Part codes 050-LAA