



Managing a network of field assets has never been easier with the NanoULTRA – III Pro. It has the flexibility of up I/Os, and communication via mobile phone networks. Its high-resolution data transfer happens seamlessly and securely from multiple assets to our secure cloud platform, the CDLSmartHub™, where the raw data can be turned into actionable insights.

From the CDLSmartHub™ 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 Pro 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
- RS232/RS485 communication with toolset to quickly set up Modbus communications (one off configuration charges apply – see price list)
- Ethernet connectivity
- Integrated SD card storage for mass storage of granular data sets
- 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
- GPS location and tracking capabilities



Cloud based IoT platform



Email and SMS alerts

## 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 with DIN rail mounting option  
(Additional kits needed for wall mounting)  
83 x 25 x 74.2mm  
Weight 165g

#### Power Supply

9 – 30 VDC, 2 pin in terminal block

#### Sim Holder

Dual SIM card slots (Mini SIM) for  
application that require  
redundancy at this level

#### Standard On-board Inputs and Outputs

200 modbus registers, sample at 20 second  
24-hour Storage

#### Communication connectivity

RS485  
RS232  
Enhanced tool set for Modbus register mapping

#### Location

Cell mast location  
GPRS

#### Approvals

CE/RED, FCC, IC/ISED, EAC, RCM, PTCRB, RoHS, WEEE,

#### LEDs and Button

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

#### Connectors

1 x 2 pin DC in terminal block  
1 x 4 pin RS485 (in 16 pin terminal block)  
1x 4 pin RS232 (in 16 pin terminal block)  
1 X SMA for LTE\*(+ Micro USB)  
1 x SMA Connector for GNSS  
2 x Sim slots (mini SIM)  
1 x LAN

#### On board Ethernet

16 port terminal (1xLAN) 10/100  
Mbps

#### Environmental

-40 to +75 °C (operational)

#### Modem

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

#### SD Card

No

# Nano ULTRA-III

UNIVERSAL ASSET TO CLOUD SOLUTION

## TECHNICAL SPECIFICATION



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



### Antenna and Connector

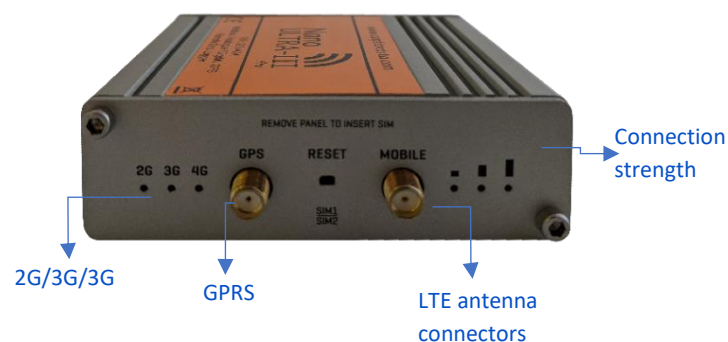
1 x LTE antenna (magnetic mount, SMA male, 3 m cable)  
1.5M Ethernet cable

### FOTA (Firmware upgrade over the air)

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

**Software** CDLSmartHub™ IoT platform connectivity

**Expansion signal conditioning module options available**



### Part codes

050-PAA