

## LoRa to Analog Input

## NT-201-AI-U



### Features

- Analog Input Data to LoRa
- Windows Configuration Utility
- Support Modbus RTU protocol
- 8 Channels Analog Inputs
- High-gain Directional Antenna (9 dBi) (optional)

### System

- **CPU** ARM CORTEX M4 32-bits MCU, 200 MHz
- **RAM** 512K Bytes SRAM
- **ROM** 1024K Bytes Flash ROM

### Connectivity

- **LoRa** : Semtech LLCC68  
**Frequency Bands**:- US915, AU915, AS923, KR920, EU868, IN865  
**Sensitivity** -129dBm@125K/SF7  
-137dBm@125K/SF12  
**Distance** :- Up to 2~3 KM in free space (3 dBi)  
3 ~ 6 KM (9 dBi directional antenna)

- **Data Rate** 0.244 ~ 18.2K bps (LoRa)
- **TX Power** Max. 22 dBm
- **Tx Current** < 140 mA@20 dBm
- **Rx Current** < 10 mA
- **Deep Sleep** 3 uA
- **Antenna Type** SMA, 3dBi, changeable
- **Topology Mode** Star

- **Analog Input**  
**Input Channel** 8  
**Input Range**:- 4 channels for 4 ~ 20 mA / 0V ~ 10V  
4 channels for 0V ~ 10V  
**Resolution** 16 bits (TI chipset)  
**Sample rate** 3 samples per second

### Mechanical & Environment

- **Operating Temperature** : - 10 °C ~ 70 °C
- **Storage Temperature** : - 20 °C ~ 80 °C
- **Dimensions** : 100mm x 90mm x 25mm,
- **Weight** : 130 gm (Not including power)

### Power

- DC-Jack 9 ~ 24V, 150 mA@12V, 60 mA@24V

### LED

- SYS (Green), Rx (Red), Tx (Green)

### Warranty

- Warranty period : 1 year

### Order Information

- NTS-201-AI-U