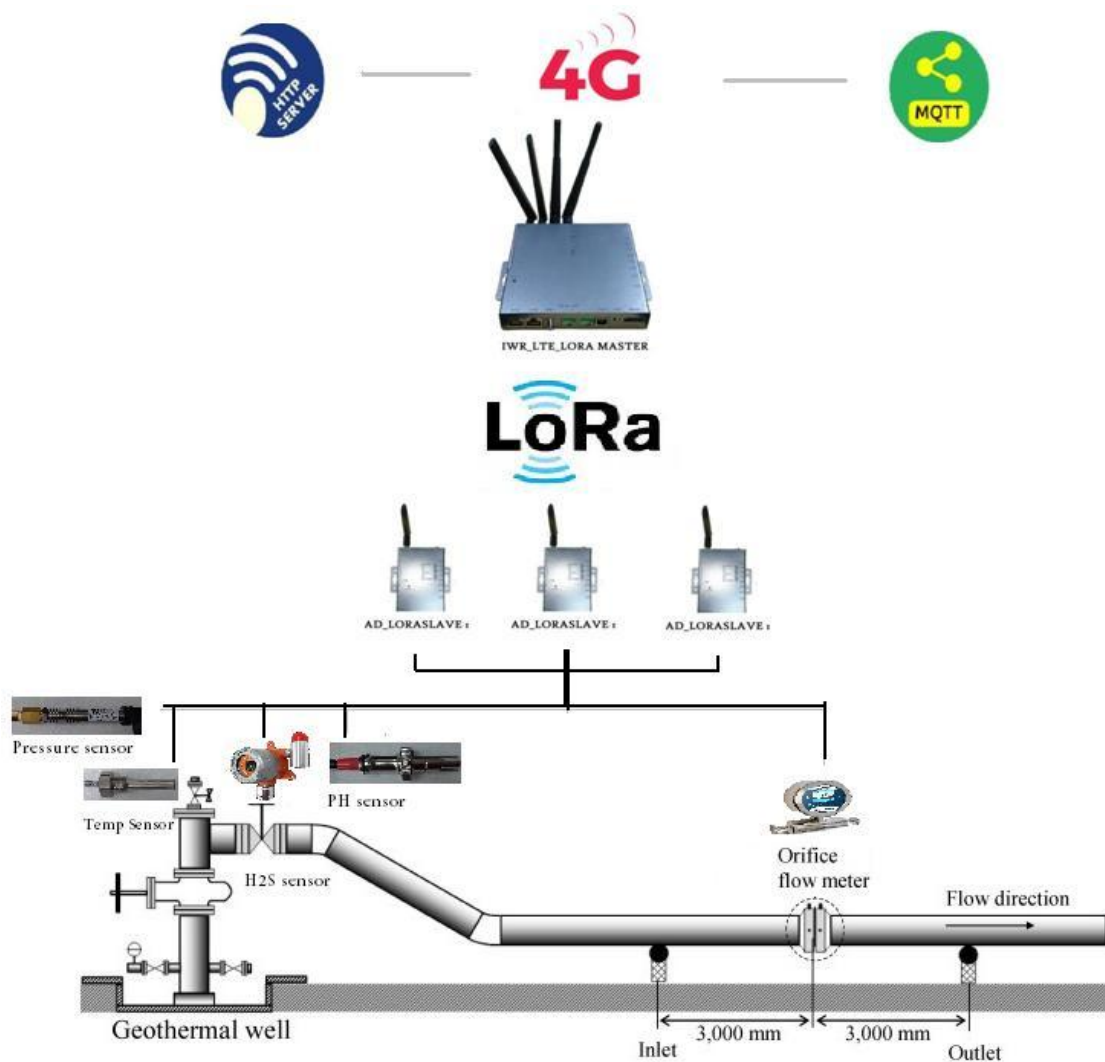


# Wellhead IoT for Geothermal, Oil & Gas and Water well (IoT 4G Gateway with Analog-to-Digital Convertors and LORA module)

Model: IWR\_LTE\_AD\_LORA

IWR\_LTE\_AD\_LORA is a data collecting server system for Temperature sensor, PH sensor, Pressure sensor, H<sub>2</sub>S sensor, flow rate and any other sensors will be suitable for the applications of geothermal, oil & gas and water well. The data collected from each individual sensor of the (LORA Slave) will be sent to the Lora gateway (LORA Master) then sent to the HTTP or MQTT server via with 4G or other WAN connection. There are several models available from 3JTech solutions therefore the users can choose the most suitable one according to the data transmission speed/distance and the cost.



Application Diagram

## Hardware specifications:

- \* MT7620IA
- \* WAN 10/100M x 1
- \* LAN 10/100M x 1
- \* Wifi 802.11 b/g/n 2T2R

- \* LTE EC25
- \* Micro SD
- \* Isolation Digital IO (optional)
- \* 8 channels Analog to digital IO
- \* Operation Temperature range: -40C ~ +85C

Features:

- \* Upload CH1 to CH8 sensor data to HTTP or MQTT server
- \* Support data storage to internal 64GB SD card
- \* Read SD card data via local LAN port (SAMBA)
- \* WIN10 real time monitoring AP via USB port
- \* Local event trigger IO activated, Alarm siren activated.