ADLINK Technical Document

Abstract	How to Use MQTT in GMLite		
OS	Windows		
Keyword	Phoenix GMLite		
Related Products	MCM-100, USB-2405		
Date	2021-12-22	**No.**	202110001

- Issue Details:

Phoenix GMLite provides an MQTT connection to get g(pk), g(rms), mm/s(pk), mm/s(rms), and um(pp) data through the internet. This document shows how to use MQTT with GMLite and self-test the system.

- Prerequisites:

Phoenix GMLite installed.

- Solution:

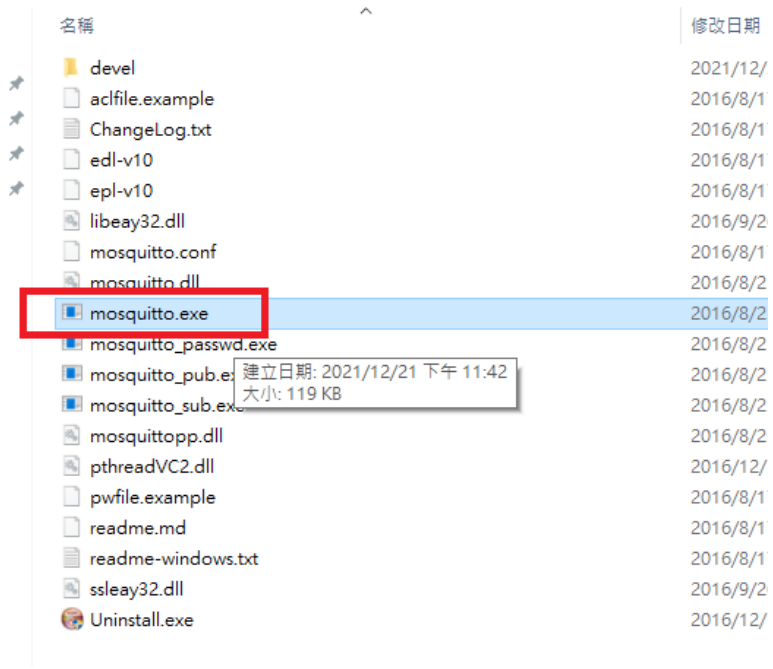
Step 1: Installation

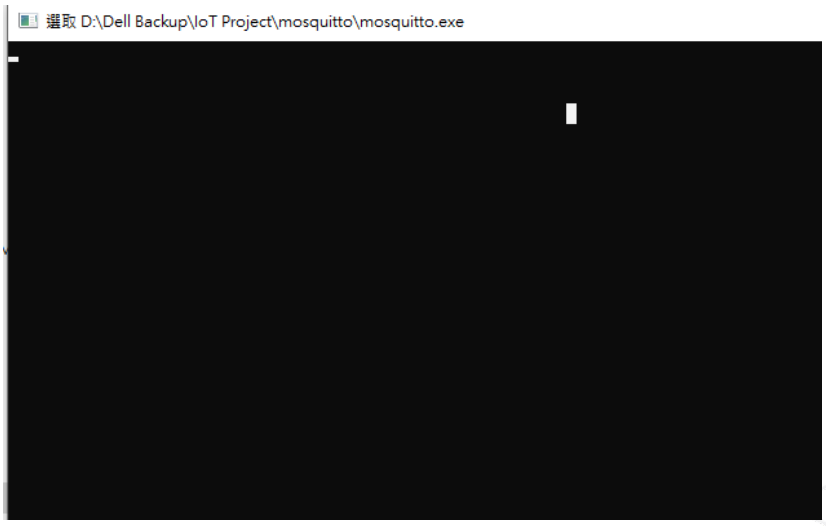
Download, unzip, and install the following applications:

1. **Mosquitto**: An open-source message broker that implements the MQTT protocol
   Download link: https://ftp.adlinktech.com/daq/mosquitto.zip
2. **Sample program**: An MQTT subscriber sample program to receive data from the publisher.
   Download link: https://ftp.adlinktech.com/daq/mqtt_client.zip

Step 2: Start mosquitto broker

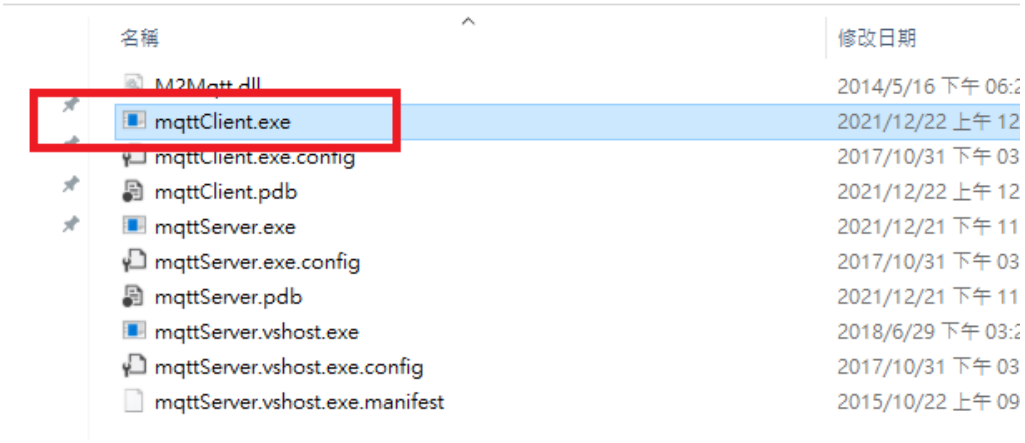
The MQTT broker receives messages from the publisher, filters the message by topic, and distributes them to subscribers. On the local machine, run **\mosquitto\mosquitoo.exe** to start the broker.

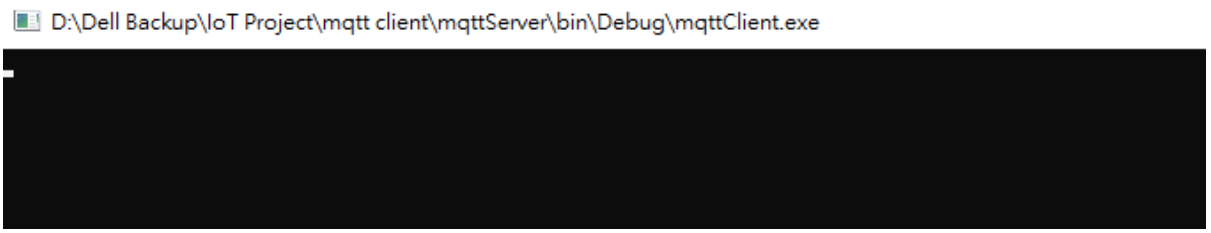




Step 3: Start MQTT subscriber

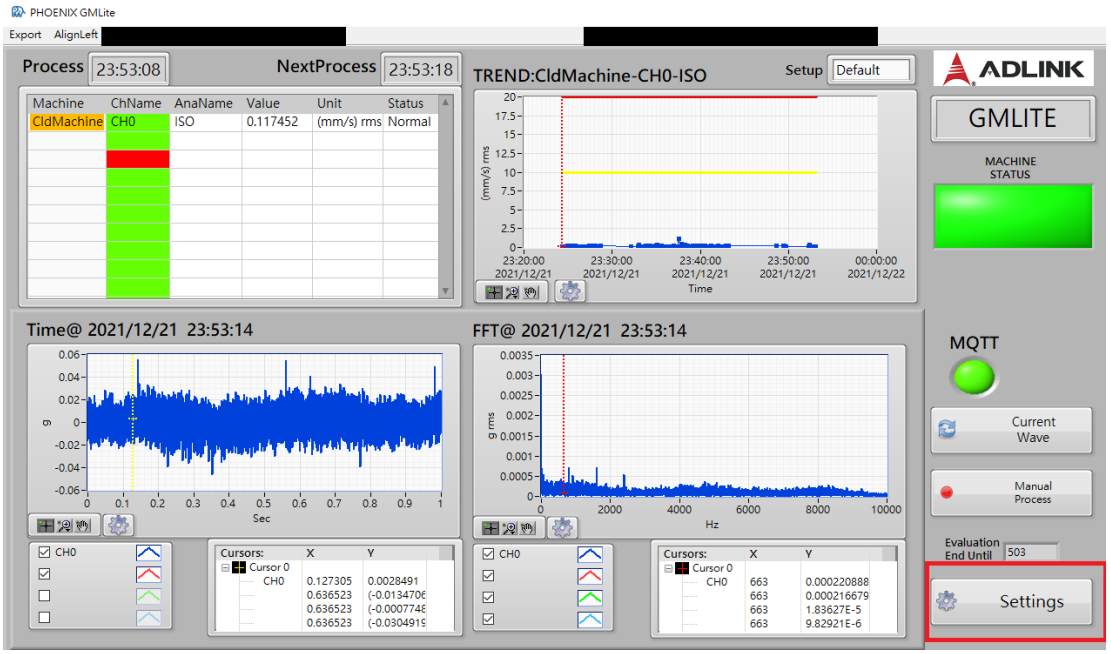
The MQTT subscriber program receives data from the publisher on the local system. On the local system, run **\mqtt_client\mqttServer\bin\Debug\mqttClient.exe** to start the subscriber program.



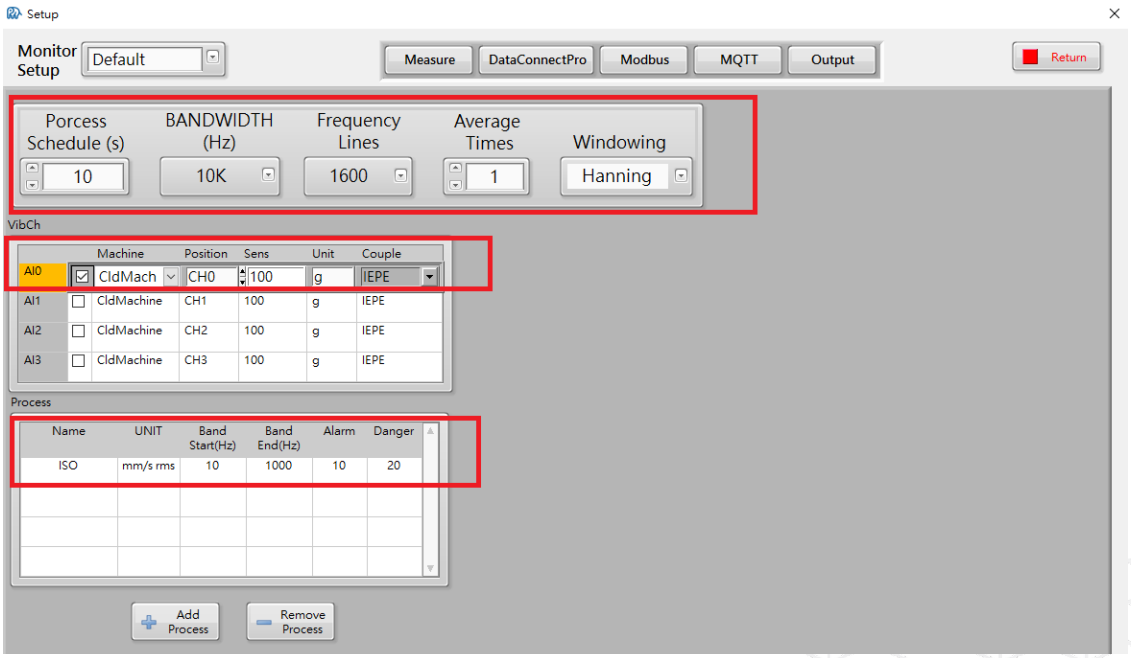


Step 4: Phoenix GMLite settings

a. Run Phoenix GMLite and click **Settings**.



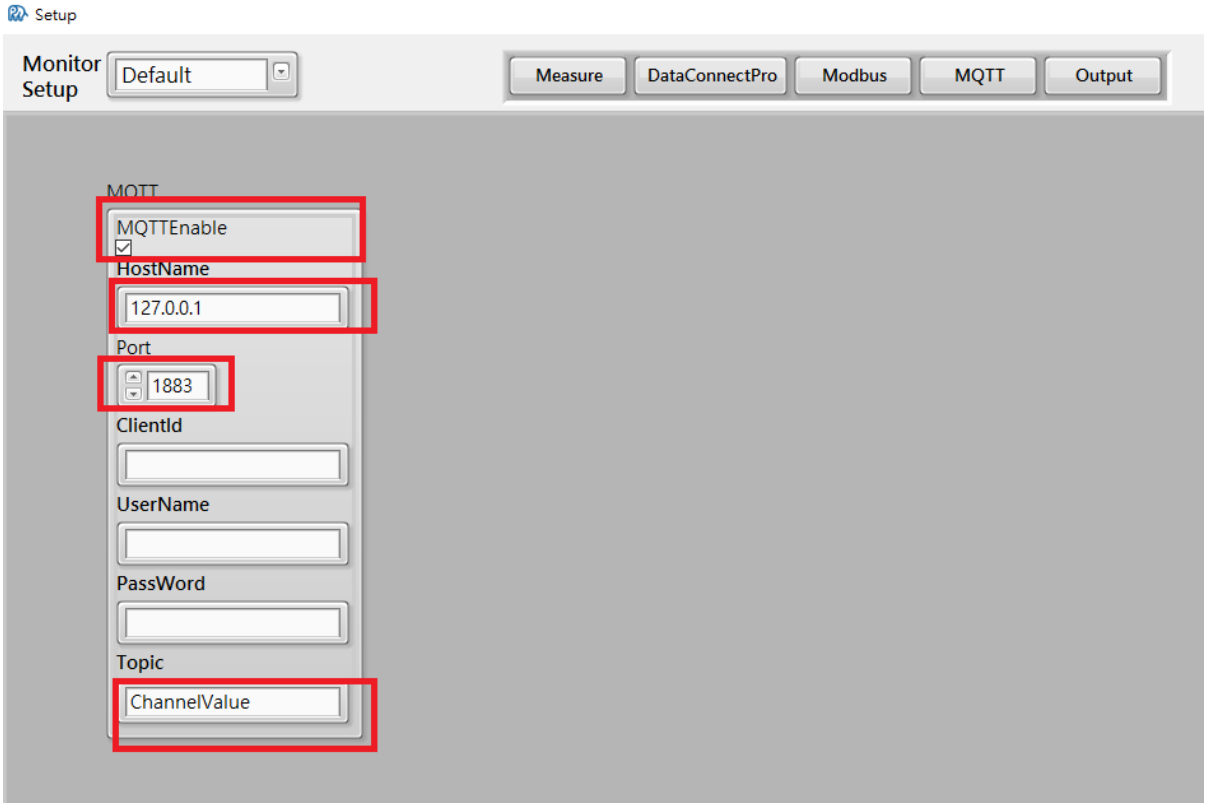
b. Enter the settings as shown below.

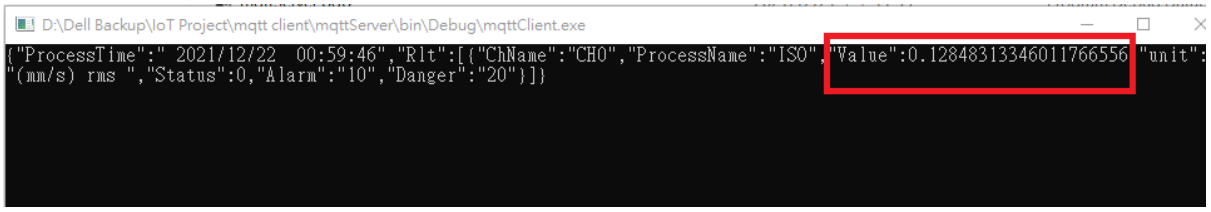
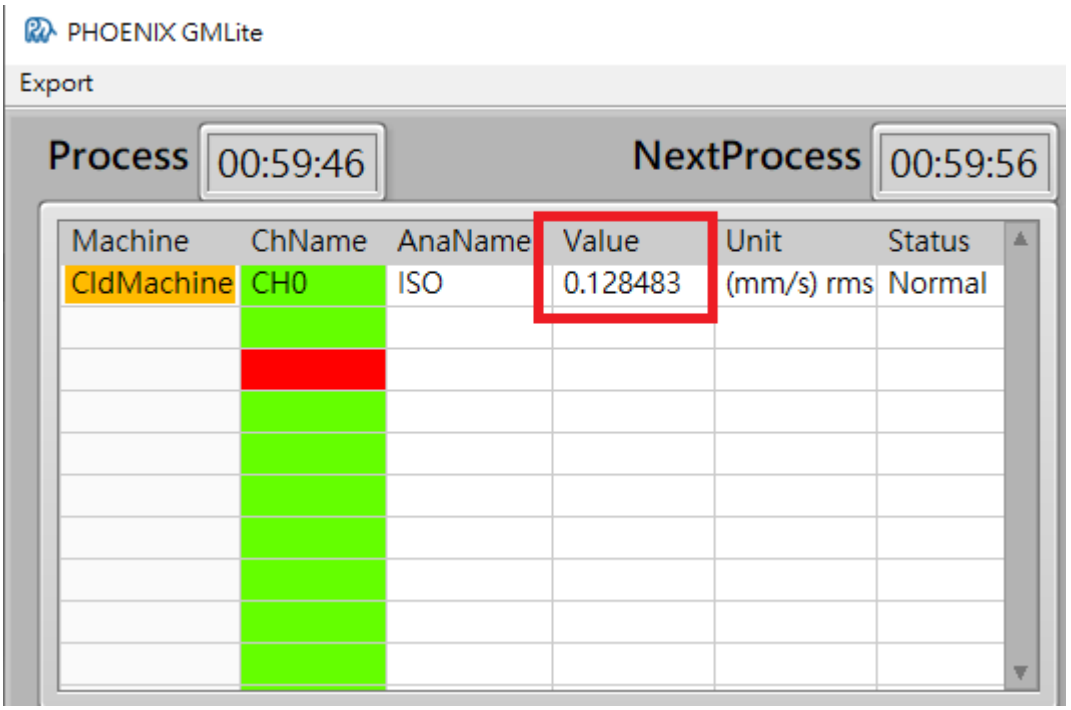


Step 5: MQTT publisher settings

Use the following setting to configure the MQTT parameters.

- HostName: 127.0.0.1
- Port: 1883
- Topic: ChannelValue



Step 6: Check results

The sample MQTT subscriber will receive data when the Phoenix GMLite starts to measure the data. This indicates that Phoenix GMLite successfully sent data by MQTT on the local system.