

MQTT_Module

Module Responsibility

Module Responsibility :

- Establishing and maintaining a connection with the MQTT Broker
- Publishing data to specific MQTT topics
- Subscribing to MQTT topics to receive data
- Forwarding received data to the application layer through a callback mechanism

Module Design

```
<<block>>
MQTT_Module
<<Parameters>>
Static Config Parameters :
#define MQTT_DEBUG_ENABLED
#define MQTT_BROKER_URI
#define MQTT_CLIENT_ID
#define MQTT_USERNAME
#define MQTT_PASSWORD
<<Function>>
~Mqtt_Init(void) : void
~Mqtt_SetDataCallback(Mqtt_DataCallback callback):void
~out:Mqtt_Publish (const char *topic, const char *data,
int qos, int retain): void
~out:Mqtt_Subscribe(const char *topic, int qos):void
~out:Mqtt_DataCallback
```

Module Flowchart

