Arduino NBduino Library

Generated by Doxygen 1.8.14

Contents

1 Class Index **1**

1.1 Class List 1

2 File Index **3**

2.1 File List 3

3 Class Documentation **5**

3.1 NBduino Class Reference 5

3.1.1 Detailed Description 5

3.1.2 Constructor & Destructor Documentation 5

3.1.2.1 NBduino() [1/3] 5

3.1.2.2 NBduino() [2/3] 6

3.1.2.3 NBduino() [3/3] 6

3.1.3 Member Function Documentation 7

3.1.3.1 begin() 7

3.1.3.2 publish() 7

3.1.3.3 reqIMEI() 8

3.1.3.4 setAPN() 8

3.1.3.5 sleep() 8

3.1.3.6 wakeup() 9

4 File Documentation **11**

4.1 src/NBduinoLibrary.cpp File Reference 11

4.1.1 Detailed Description 11

4.2 src/NBduinoLibrary.h File Reference 11

4.2.1 Detailed Description 12

Index **13**

Chapter 1

Class Index

1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

NBduino 5

Chapter 2

File Index

2.1 File List

Here is a list of all documented files with brief descriptions:

src/NBduinoLibrary.cpp
: NBduino class mathods implementation. This class can be used to ease the programming of an Arduino sketch using the TopView NBduino shield 11

src/NBduinoLibrary.h
: NBduino class definition and the include file that the class implementation needs 11

Chapter 3

Class Documentation

3.1 NBduino Class Reference

Public Member Functions

- NBduino ()
- NBduino (const String mqttServer, const int mqttPort, const String mqttUser, const String mqttPassword)
- NBduino (const String mqttServer, const int mqttPort, const String mqttUser, const String mqttPassword, unsigned long timeToConn)
- setAPN (String APN)
- bool begin ()
- wakeup ()
- sleep ()
- String reqIMEI ()
- publish (const String topic, const String value)

3.1.1 Detailed Description

Definition at line 17 of file NBduinoLibrary.h.

3.1.2 Constructor & Destructor Documentation

3.1.2.1 NBduino() [1/3]

`NBduino::NBduino ( )`

This method is the constructor of the NBduuino

Author

Antonio Cafiero

Date

14/12/2018

Definition at line 22 of file NBduinoLibrary.cpp.

3.1.2.2 NBduino() [2/3]

```
NBduino::NBduino (
            const String mqttServer,
            const int mqttPort,
            const String mqttUser,
            const String mqttPassword )
```

This method is the constructor of the NBduuino

Author

Antonio Cafiero

Parameters

mqttServer	The name or the IP address of the MQTT broker (String)
mqttPort	The port number of the MQTT broker (Int)
mqttUser	The username enabeled to access the MQTT broker (String)
mqttPassword	The password to autenticate the userto access the MQTT broker (String)

Date

14/12/2018

Definition at line 35 of file NBduinoLibrary.cpp.

3.1.2.3 NBduino() [3/3]

```
NBduino::NBduino (
            const String mqttServer,
            const int mqttPort,
            const String mqttUser,
            const String mqttPassword,
            unsigned long timeToConn )
```

This method is the constructor of the NBduuino

Author

Antonio Cafiero

Parameters

mqttServer	The name or the IP address of the MQTT broker (String)
mqttPort	The port number of the MQTT broker (Int)
mqttUser	The username enabeled to access the MQTT broker (String)
mqttPassword	The password to autenticate the userto access the MQTT broker (String)
timeToConn	The timeout in ms in connection phase (unsigned long)

Date

14/12/2018

Definition at line 54 of file NBduinoLibrary.cpp.

3.1.3 Member Function Documentation

3.1.3.1 begin()

```
bool NBduino::begin ( )
```

This method must be called at beginning before any publish, subscribe, wakeup and sleep call.

Author

Antonio Cafiero

Date

14/12/2018

Definition at line 111 of file NBduinoLibrary.cpp.

3.1.3.2 publish()

```
NBduino::publish (
            const String topic,
            const String value )
```

This method publish a string to the MQTT broker.

Author

Antonio Cafiero

Parameters

topic	The topic name for publishing (String)
value	The string to publish (String)

Date

14/12/2018

Definition at line 171 of file NBduinoLibrary.cpp.

3.1.3.3 reqIMEI()

```
String NBduino::reqIMEI ( )
```

This method return the NBduno IMEI string (String).

Author

Antonio Cafiero

Date

14/12/2018

Definition at line 222 of file NBduinoLibrary.cpp.

3.1.3.4 setAPN()

```
NBduino::setAPN (
            String APN )
```

This method set the APN

Author

Antonio Cafiero

Parameters

APN	The name or the APN (String)

Date

14/12/2018

Definition at line 69 of file NBduinoLibrary.cpp.

3.1.3.5 sleep()

```
NBduino::sleep ( )
```

This method asleep the NBduino shield.

Author

Antonio Cafiero

Date

14/12/2018

Definition at line 157 of file NBduinoLibrary.cpp.

3.1.3.6 wakeup()

```
NBduino::wakeup ( )
```

This method wakeup the NBduino shield.

Author

Antonio Cafiero

Date

14/12/2018

Definition at line 144 of file NBduinoLibrary.cpp.

The documentation for this class was generated from the following files:

- src/NBduinoLibrary.h
- src/NBduinoLibrary.cpp

Chapter 4

File Documentation

4.1 src/NBduinoLibrary.cpp File Reference

contains the NBduino class mathods implementation. This class can be used to ease the programming of an Arduino sketch using the TopView NBduino shield.

```
#include <arduino.h>
#include <NBduinoLibrary.h>
```

4.1.1 Detailed Description

contains the NBduino class mathods implementation. This class can be used to ease the programming of an Arduino sketch using the TopView NBduino shield.

Author

Antonio Cafiero

Date

14/12/2018

4.2 src/NBduinoLibrary.h File Reference

contains the NBduino class definition and the include file that the class implementation needs.

```
#include <SoftwareSerial.h>
```

Classes

- class NBduino

4.2.1 Detailed Description

contains the NBduino class definition and the include file that the class implementation needs.

Author

Antonio Cafiero

Date

14/12/2018

Index

begin
    NBduino, 7

NBduino, 5
    begin, 7
    NBduino, 5, 6
    publish, 7
    reqIMEI, 8
    setAPN, 8
    sleep, 8
    wakeup, 9

publish
    NBduino, 7

reqIMEI
    NBduino, 8

setAPN
    NBduino, 8
sleep
    NBduino, 8
src/NBduinoLibrary.cpp, 11
src/NBduinoLibrary.h, 11

wakeup
    NBduino, 9