Arduino NBduino Library

Generated by Doxygen 1.8.14

Contents

Index

1	Clas	s Index		1
	1.1	Class I	ist	1
2	File	Index		3
	2.1	File Lis	t	3
3	Clas	s Docu	mentation	5
	3.1	NBduir	no 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()	9
			3.1.3.6 wakeup()	9
4	File	Docume	entation 1	1
	4.1	D:/ardu	uino-1.8.5/Portable/sketchbook/libraries/NBduinoLibrary/src/NBduinoLibrary.cpp File Reference 1	1
		4.1.1	Detailed Description	1
	4.2	D:/ardu	uino-1.8.5/Portable/sketchbook/libraries/NBduinoLibrary/src/NBduinoLibrary.h File Reference 1	1
		4.2.1	Detailed Description	2

13

Class Index

4	4	01		1.0	
1	.1		ass	LI:	SI

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

2 Class Index

File Index

2.1 File List

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

D:/arduino-1.8.5/Portable/sketchbook/libraries/NBduinoLibrary/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
D:/arduino-1.8.5/Portable/sketchbook/libraries/NBduinoLibrary/src/NBduinoLibrary.h	
NBduino class definition and the include file that the class implementation needs	11

File Index

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 a constructor for the NBduino class
```

```
Usage example:
    NBduino NBiot();
```

Author

Antonio Cafiero

Date

14/12/2018

Definition at line 27 of file NBduinoLibrary.cpp.

6 Class Documentation

3.1.2.2 NBduino() [2/3]

This method is a constructor for the NBduino class

```
Usage example:
    NBduino NBiot("54.76.137.235", 18224, "test", "test");
```

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).

Author

Antonio Cafiero

Date

14/12/2018

Definition at line 45 of file NBduinoLibrary.cpp.

3.1.2.3 NBduino() [3/3]

This method is a constructor for the NBduino class

```
Usage example:

NBduino NBiot("54.76.137.235", 18224, "test", "test", 60000);
```

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)

Generated by Doxygen

Author

Antonio Cafiero

Date

14/12/2018

Definition at line 69 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.

```
Usage example:
   bool status
   status=NBiot.begin();
```

Returns

true if NBduino correctly initiated - false othewise

Author

Antonio Cafiero

Date

14/12/2018

Definition at line 138 of file NBduinoLibrary.cpp.

3.1.3.2 publish()

This method publish a string to the MQTT broker.

```
Usage example:
    NBiot.publish("topic001", "Hello World!");
```

8 Class Documentation

Parameters

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

Author

Antonio Cafiero

Date

14/12/2018

Definition at line 213 of file NBduinoLibrary.cpp.

```
3.1.3.3 reqIMEI()
```

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

This method return the NBduno IMEI string (String).

```
Usage example:
    String IMEI
    IMEI=NBiot.reqIMEI();
```

Returns

The string contains IMEI

Author

Antonio Cafiero

Date

14/12/2018

Definition at line 271 of file NBduinoLibrary.cpp.

3.1.3.4 setAPN()

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

This method set the APN

```
Usage example:
    NBiot.setAPN("broker.iothingsware.com");
```

Parameters

APN The name of the APN (String)

Author

Antonio Cafiero

Date

14/12/2018

Definition at line 89 of file NBduinoLibrary.cpp.

```
3.1.3.5 sleep()
```

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

This method asleep the NBduino shield.

```
Usage example:
    NBiot.sleep();
```

Author

Antonio Cafiero

Date

14/12/2018

Definition at line 194 of file NBduinoLibrary.cpp.

3.1.3.6 wakeup()

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

This method wakeup the NBduino shield.

```
Usage example:
    NBiot.wakeup();
```

Author

Antonio Cafiero

Date

14/12/2018

Definition at line 176 of file NBduinoLibrary.cpp.

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

- D:/arduino-1.8.5/Portable/sketchbook/libraries/NBduinoLibrary/src/NBduinoLibrary.h
- D:/arduino-1.8.5/Portable/sketchbook/libraries/NBduinoLibrary/src/NBduinoLibrary.cpp

10 Class Documentation

File Documentation

4.1 D:/arduino-1.8.5/Portable/sketchbook/libraries/NBduinoLibrary/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 D:/arduino-1.8.5/Portable/sketchbook/libraries/NBduinoLibrary/src/NBduinoLibrary.h File Reference

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

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

12 File Documentation

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
D:/arduino-1.8.5/Portable/sketchbook/libraries/N \hookleftarrow
          BduinoLibrary/src/NBduinoLibrary.cpp, 11
D:/arduino-1.8.5/Portable/sketchbook/libraries/N←
         BduinoLibrary/src/NBduinoLibrary.h, 11
NBduino, 5
    begin, 7
    NBduino, 5, 6
    publish, 7
     reqIMEI, 8
     setAPN, 8
     sleep, 9
    wakeup, 9
publish
     NBduino, 7
reqIMEI
     NBduino, 8
setAPN
     NBduino, 8
sleep
     NBduino, 9
wakeup
     NBduino, 9
```