Arduino (AT)tention Device

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 ${\bf Software Serial Attention Device.} h$

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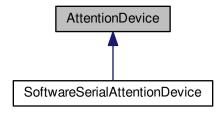
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4 Class Documentation

4.1 AttentionDevice Class Reference

#include <AttentionDevice.h>

Inheritance diagram for AttentionDevice:



Public Member Functions

- virtual bool sendCommandExpecting (const char *command, const char *expectation, bool append, unsigned long timeout)=0
- virtual bool doesResponseContains (const char *expectation)=0
- virtual unsigned int sendCommand (const char *command, bool append, unsigned long timeout)=0
- virtual unsigned int readResponse (unsigned long timeout, bool append)=0
- virtual int waitUntilReceive (const char *str, unsigned int timeout)=0

4.1.1 Detailed Description

Arduino - AT device.

Author

Dalmir da Silva dalmirdasilva@gmail.com

Definition at line 10 of file AttentionDevice.h.

4.1.2 Member Function Documentation

 $\textbf{4.1.2.1} \quad \textbf{virtual bool Attention Device::} \textbf{does Response Contains (const char} * \textbf{\textit{expectation}}) \quad [\texttt{pure virtual}]$

Checks if the last response contains the given sub-string.

Parameters

expectation The expectation string.

Returns

Implemented in SoftwareSerialAttentionDevice.

4.1.2.2 virtual unsigned int AttentionDevice::readResponse (unsigned long timeout, bool append) [pure virtual]

Reads the response from the device.

Parameters

timeout	The maximum time to perform the op.
append	Append the response in the internal buffer.

Returns

How many bytes was received. 0 if timeout.

Implemented in SoftwareSerialAttentionDevice.

4.1.2.3 virtual unsigned int AttentionDevice::sendCommand (const char * command, bool append, unsigned long timeout) [pure virtual]

Sends a command to the device.

Parameters

comma	nd	The command string, should be \0 ended.
timeout		The maximum time to perform the op.

Returns

Implemented in SoftwareSerialAttentionDevice.

4.1.2.4 virtual bool AttentionDevice::sendCommandExpecting (const char * command, const char * expectation, bool append, unsigned long timeout) [pure virtual]

Sends a command expecting some result.

Parameters

command	The command string, should be \0 ended.
expectation	The expectation string.
timeout	The maximum time to perform the op.

Returns

Implemented in SoftwareSerialAttentionDevice.

4.1.2.5 virtual int AttentionDevice::waitUntilReceive (const char * str, unsigned int timeout) [pure virtual]

Keeps reading the response until finds the str or timeout.

Parameters

str	String it tries to find
timeout	Timeout in millis

Returns

The position to the first char it finds in the internal buffer, -1 otherwise

Implemented in SoftwareSerialAttentionDevice.

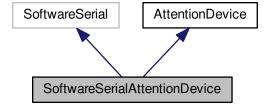
The documentation for this class was generated from the following file:

• AttentionDevice.h

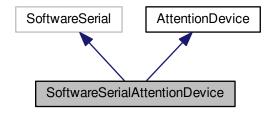
4.2 SoftwareSerialAttentionDevice Class Reference

#include <SoftwareSerialAttentionDevice.h>

Inheritance diagram for SoftwareSerialAttentionDevice:



Collaboration diagram for SoftwareSerialAttentionDevice:



Public Member Functions

- SoftwareSerialAttentionDevice (unsigned char receivePin, unsigned char transmitPin)
- unsigned char * getLastResponse ()
- bool sendCommandExpecting (const char *command, const char *expectation, bool append, unsigned long timeout)
- · bool sendCommandExpecting (const char *command, const char *expectation, bool append)
- · bool sendCommandExpecting (const char *command, const char *expectation, unsigned long timeout)
- bool sendCommandExpecting (const char *command, const char *expectation)
- bool doesResponseContains (const char *expectation)
- unsigned int sendCommand (const char *command, bool append, unsigned long timeout)
- unsigned int sendCommand (const char *command, bool append)
- unsigned int sendCommand (const char *command, unsigned long timeout)
- unsigned int sendCommand (const char *command)
- unsigned int sendCommand ()
- unsigned int readResponse (unsigned long timeout)
- unsigned int readResponse (unsigned long timeout, bool append)
- bool wasResponseFullyRead ()
- const char * findInResponse (const char *str)
- int waitUntilReceive (const char *str, unsigned int timeout)
- · void discardBuffer ()

Private Attributes

- unsigned char rxBuffer [AT_DEVICE_RX_BUFFER_SIZE]
- · unsigned int rxBufferPos
- · bool responseFullyRead

4.2.1 Detailed Description

Definition at line 17 of file SoftwareSerialAttentionDevice.h.

- 4.2.2 Constructor & Destructor Documentation
- 4.2.2.1 SoftwareSerialAttentionDevice::SoftwareSerialAttentionDevice (unsigned char receivePin, unsigned char transmitPin)

Definition at line 4 of file SoftwareSerialAttentionDevice.cpp.

- 4.2.3 Member Function Documentation
- 4.2.3.1 void SoftwareSerialAttentionDevice::discardBuffer ()

Discards the internal buffer.

Definition at line 82 of file SoftwareSerialAttentionDevice.cpp.

4.2.3.2 bool SoftwareSerialAttentionDevice::doesResponseContains (const char * expectation) [virtual]

Checks if the last response contains the given sub-string.

Parameters

expectation The expectation	n string.
-----------------------------	-----------

Returns

Implements AttentionDevice.

Definition at line 16 of file SoftwareSerialAttentionDevice.cpp.

4.2.3.3 const char * SoftwareSerialAttentionDevice::findlnResponse (const char * str)

Searches the response for a given string.

Parameters

str The string to be searched inside response

Returns

The pointer to the first found string, NULL if not found

Definition at line 68 of file SoftwareSerialAttentionDevice.cpp.

4.2.3.4 unsigned char* SoftwareSerialAttentionDevice::getLastResponse() [inline]

Get a pointer to the last response.

Returns

Definition at line 44 of file SoftwareSerialAttentionDevice.h.

4.2.3.5 unsigned int SoftwareSerialAttentionDevice::readResponse (unsigned long timeout) [inline]

Reads the response from the device.

Parameters

timed	out	The maximum time to perform the op.
-------	-----	-------------------------------------

Returns

How many bytes was received. 0 if timeout.

Definition at line 155 of file SoftwareSerialAttentionDevice.h.

4.2.3.6 unsigned int SoftwareSerialAttentionDevice::readResponse (unsigned long timeout, bool append) [virtual]

Reads the response from the device.

Parameters

timeout	The maximum time to perform the op.
append	Append the response in the internal buffer.

Returns

How many bytes was received. 0 if timeout.

Implements AttentionDevice.

Definition at line 31 of file SoftwareSerialAttentionDevice.cpp.

4.2.3.7 unsigned int SoftwareSerialAttentionDevice::sendCommand (const char * command, bool append, unsigned long timeout) [virtual]

Sends a command to the device.

Parameters

command	The command string, should be \0 ended.
timeout	The maximum time to perform the op.

Returns

Implements AttentionDevice.

Definition at line 20 of file SoftwareSerialAttentionDevice.cpp.

4.2.3.8 unsigned int SoftwareSerialAttentionDevice::sendCommand (const char * command, bool append) [inline]

Sends a command to the device.

Parameters

command	The command string, should be \0 ended.
append	Boolean saying if the AT must be appended.

Returns

Definition at line 117 of file SoftwareSerialAttentionDevice.h.

4.2.3.9 unsigned int SoftwareSerialAttentionDevice::sendCommand (const char * command, unsigned long timeout) [inline]

Sends a command to the device.

Parameters

command	The command string, should be \0 ended.
append	Boolean saying if the AT must be appended.

Returns

Definition at line 128 of file SoftwareSerialAttentionDevice.h.

4.2.3.10 unsigned int SoftwareSerialAttentionDevice::sendCommand (const char * command) [inline]

Sends a command to the device.

Parameters

command	The command string, should be \0 ended.
	3,

Returns

Definition at line 138 of file SoftwareSerialAttentionDevice.h.

4.2.3.11 unsigned int SoftwareSerialAttentionDevice::sendCommand() [inline]

Sends a command to the device.

Definition at line 145 of file SoftwareSerialAttentionDevice.h.

4.2.3.12 bool SoftwareSerialAttentionDevice::sendCommandExpecting (const char * command, const char * expectation, bool append, unsigned long timeout) [virtual]

Sends a command expecting some result.

Parameters

command	The command string, should be \0 ended.
expectation	The expectation string.
timeout	The maximum time to perform the op.

Returns

Implements AttentionDevice.

Definition at line 9 of file SoftwareSerialAttentionDevice.cpp.

4.2.3.13 bool SoftwareSerialAttentionDevice::sendCommandExpecting (const char * command, const char * expectation, bool append) [inline]

Sends a command expecting some result.

Parameters

command	The command string, should be \0 ended.
expectation	The expectation string.
append	If should append AT+ in the command.

Returns

Definition at line 66 of file SoftwareSerialAttentionDevice.h.

4.2.3.14 bool SoftwareSerialAttentionDevice::sendCommandExpecting (const char * command, const char * expectation, unsigned long timeout) [inline]

Sends a command expecting some result.

Parameters

command	The command string, should be \0 ended.
expectation	The expectation string.
timeout	Timeout.

Returns

Definition at line 78 of file SoftwareSerialAttentionDevice.h.

4.2.3.15 bool SoftwareSerialAttentionDevice::sendCommandExpecting (const char * *command*, const char * *expectation*) [inline]

Sends a command expecting some result.

Parameters

command	The command string, should be \0 ended.
expectation	The expectation string.

Returns

Definition at line 89 of file SoftwareSerialAttentionDevice.h.

4.2.3.16 int SoftwareSerialAttentionDevice::waitUntilReceive (const char * str, unsigned int timeout) [virtual]

Keeps reading the response until finds the str or timeout.

Parameters

str	String it tries to find
timeout	Timeout in millis

Returns

The position to the first char it finds in the internal buffer, -1 otherwise

Implements AttentionDevice.

Definition at line 72 of file SoftwareSerialAttentionDevice.cpp.

4.2.3.17 bool SoftwareSerialAttentionDevice::wasResponseFullyRead ()

Checks if the rx is fully read.

If false, a new call to readResponse will read more data from tx placing the new data over the current data in it. Consecutive calls to readResponse will write data into the same buffer.

use getLastResponse to consume the current data and then call readResponse again in case tx was not fully read.

Definition at line 64 of file SoftwareSerialAttentionDevice.cpp.

4.2.4 Member Data Documentation

4.2.4.1 bool SoftwareSerialAttentionDevice::responseFullyRead [private]

Bool indicating the last command's response was fully read by readResponse method.

Definition at line 33 of file SoftwareSerialAttentionDevice.h.

4.2.4.2 unsigned char SoftwareSerialAttentionDevice::rxBuffer[AT_DEVICE_RX_BUFFER_SIZE] [private]

RX buffer.

Definition at line 22 of file SoftwareSerialAttentionDevice.h.

4.2.4.3 unsigned int SoftwareSerialAttentionDevice::rxBufferPos [private]

RX buffer position.

Definition at line 27 of file SoftwareSerialAttentionDevice.h.

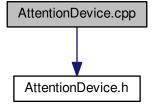
The documentation for this class was generated from the following files:

- · SoftwareSerialAttentionDevice.h
- SoftwareSerialAttentionDevice.cpp

5 File Documentation

5.1 AttentionDevice.cpp File Reference

#include "AttentionDevice.h"
Include dependency graph for AttentionDevice.cpp:

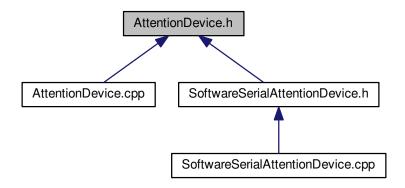


5.2 AttentionDevice.cpp

```
00001 #include "AttentionDevice.h"
```

5.3 AttentionDevice.h File Reference

This graph shows which files directly or indirectly include this file:



Classes

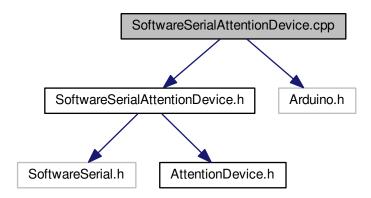
class AttentionDevice

5.4 AttentionDevice.h

```
00001
00007 #ifndef __ARDUINO_ATTENTION_DEVICE_H_
00008 #define __ARDUINO_ATTENTION_DEVICE_H_ 1
00009
00010 class AttentionDevice {
00011
00012 public:
00013
         virtual bool sendCommandExpecting(const char *command, const char *expectation,
00022
     bool append, unsigned long timeout) = 0;
00023
00030
         virtual bool doesResponseContains(const char *expectation) = 0;
00031
         virtual unsigned int sendCommand(const char *command, bool append, unsigned long timeout) =
00039
00040
00048
          virtual unsigned int readResponse(unsigned long timeout, bool append) = 0;
00049
00057
          virtual int waitUntilReceive(const char *str, unsigned int timeout) = 0;
00058 };
00060 #endif /* __ARDUINO_ATTENTION_DEVICE_H_ */
```

5.5 SoftwareSerialAttentionDevice.cpp File Reference

```
#include "SoftwareSerialAttentionDevice.h"
#include <Arduino.h>
Include dependency graph for SoftwareSerialAttentionDevice.cpp:
```



5.6 SoftwareSerialAttentionDevice.cpp

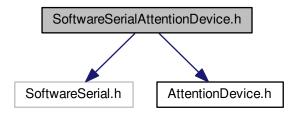
```
00001 #include "SoftwareSerialAttentionDevice.h"
00002 #include <Arduino.h>
00003
{\tt 00004~Software Serial Attention Device:: Software Serial Attention Device}
      (unsigned char receivePin, unsigned char transmitPin)
00005
              : SoftwareSerial(receivePin, transmitPin), rxBufferPos(0), responseFullyRead(true) {
00006
          rxBuffer[0] = ' \setminus 0';
00007 }
80000
00009 bool SoftwareSerialAttentionDevice::sendCommandExpecting
      (const char *command, const char *expectation, bool append, unsigned long timeout) {
00010
          if (sendCommand(command, append, timeout) == 0) {
00011
              return false;
00012
          return doesResponseContains(expectation);
00013
00014 }
00015
00016 bool SoftwareSerialAttentionDevice::doesResponseContains
     (const char *expectation) {
00017
          return findInResponse(expectation) != NULL;
00018 }
00019
00020 unsigned int SoftwareSerialAttentionDevice::sendCommand(const
     char *command, bool append, unsigned long timeout) {
00021
          rxBufferPos = 0;
          rxBuffer[0] = ' \setminus 0';
00022
00023
          flush();
          if (append) {
00024
00025
             print("AT");
00026
00027
          println(command);
00028
          return readResponse(timeout);
00029 }
00030
00031 unsigned int SoftwareSerialAttentionDevice::readResponse(
      unsigned long timeout, bool append) {
          int availableBytes;
00032
00033
          unsigned long pos, last, now, start;
00034
          unsigned int read;
last = start = millis();
00035
00036
          if (!append) {
00037
              rxBufferPos = 0;
```

```
00038
00039
          pos = rxBufferPos;
00040
          responseFullyRead = true;
00041
          while (available() <= 0 && (millis() - start) < timeout)</pre>
00042
00043
          start = millis();
00044
          do {
00045
              availableBytes = available();
00046
              if (availableBytes > 0) {
00047
                  if (rxBufferPos + availableBytes >=
     AT_DEVICE_RX_BUFFER_SIZE) {
                      availableBytes = AT_DEVICE_RX_BUFFER_SIZE - (
00048
     rxBufferPos + 1);
00049
                      responseFullyRead = false;
00050
00051
                  if (availableBytes > 0) {
00052
                      last = millis();
00053
                      // we have the guaranty that is not going to be too big because it is constrained by the
      buffer size.
00054
                      read = readBytes((char *) &rxBuffer[rxBufferPos], availableBytes);
00055
                      rxBufferPos += read;
                      rxBuffer[rxBufferPos] = ' \setminus 0';
00056
00057
                 }
00058
00059
             now = millis();
        } while ((availableBytes > 0 || (now - last) <</pre>
00060
     AT_DEVICE_SERIAL_INTERBYTE_TIMEOUT) && (now - start) < timeout &&
      responseFullyRead);
00061
          return rxBufferPos - pos;
00062 }
00063
00064 bool SoftwareSerialAttentionDevice::wasResponseFullyRead
     () {
00065
          return responseFullyRead;
00066 }
00067
00068 const char *SoftwareSerialAttentionDevice::findInResponse(
     const char *str) {
00069
         return strstr((const char *) &rxBuffer[0], str);
00070 }
00071
00072 int SoftwareSerialAttentionDevice::waitUntilReceive(const
     char *str, unsigned int timeout) {
  const char *pos;
  while ((pos = findInResponse(str)) == NULL && readResponse(timeout,
00073
     responseFullyRead) > 0)
00075
         return (int) (pos - (const char *) &rxBuffer[0]);
}
          if (pos != NULL) {
00076
00077
00078
00079
         return -1;
00080 }
00081
00084 }
```

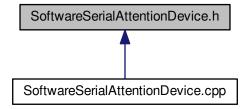
5.7 SoftwareSerialAttentionDevice.h File Reference

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

Include dependency graph for SoftwareSerialAttentionDevice.h:



This graph shows which files directly or indirectly include this file:



Classes

· class SoftwareSerialAttentionDevice

Macros

- #define AT_DEVICE_RX_BUFFER_SIZE 256
- #define AT_DEVICE_DEFAULT_COMMAND_RESPONSE_TIMEOUT 1000UL
- #define AT_DEVICE_SERIAL_INTERBYTE_TIMEOUT 50UL
- 5.7.1 Macro Definition Documentation
- 5.7.1.1 #define AT_DEVICE_DEFAULT_COMMAND_RESPONSE_TIMEOUT 1000UL

Definition at line 14 of file SoftwareSerialAttentionDevice.h.

5.7.1.2 #define AT_DEVICE_RX_BUFFER_SIZE 256

Arduino - AT device.

Author

Dalmir da Silva dalmirdasilva@gmail.com

Definition at line 13 of file SoftwareSerialAttentionDevice.h.

5.7.1.3 #define AT DEVICE SERIAL INTERBYTE TIMEOUT 50UL

Definition at line 15 of file SoftwareSerialAttentionDevice.h.

5.8 SoftwareSerialAttentionDevice.h

```
00007 #ifndef __ARDUINO_SOFTWARE_SERIAL_ATTENTION_DEVICE_H_
00008 #define __ARDUINO_SOFTWARE_SERIAL_ATTENTION_DEVICE_H_
00009
00010 #include <SoftwareSerial.h>
00011 #include <AttentionDevice.h>
00012
00013 #define AT_DEVICE_RX_BUFFER_SIZE
00014 #define AT_DEVICE_DEFAULT_COMMAND_RESPONSE_TIMEOUT
00015 #define AT_DEVICE_SERIAL_INTERBYTE_TIMEOUT
                                                           SOUT.
00016
00017 class SoftwareSerialAttentionDevice : public SoftwareSerial, public
      AttentionDevice {
00018
00022
          unsigned char rxBuffer[AT_DEVICE_RX_BUFFER_SIZE];
00023
00027
          unsigned int rxBufferPos;
00028
00033
          bool responseFullvRead;
00034
00035 public:
00036
00037
          SoftwareSerialAttentionDevice(unsigned char receivePin, unsigned char
      transmitPin);
00038
00044
          unsigned char *getLastResponse() {
00045
             return &rxBuffer[0];
00046
00047
00056
         bool sendCommandExpecting(const char *command, const char *expectation, bool append
      , unsigned long timeout);
00057
          inline bool sendCommandExpecting(const char *command, const char *expectation, bool
00066
00067
              return sendCommandExpecting(command, expectation, append,
      AT_DEVICE_DEFAULT_COMMAND_RESPONSE_TIMEOUT);
00068
00069
00078
          inline bool sendCommandExpecting(const char *command, const char *expectation,
      unsigned long timeout) {
00079
              return sendCommandExpecting(command, expectation, false, timeout);
00080
00081
00089
          inline bool sendCommandExpecting(const char *command, const char *expectation) {
00090
              return sendCommandExpecting(command, expectation, (bool) false);
00091
00092
00099
          bool doesResponseContains(const char *expectation);
00100
00108
          unsigned int sendCommand(const char *command, bool append, unsigned long timeout);
00109
          inline unsigned int sendCommand(const char *command, bool append) {
00117
00118
              return sendCommand(command, append, 1000);
00119
00120
          inline unsigned int sendCommand(const char *command, unsigned long timeout) {
00128
00129
             return sendCommand(command, (bool) false, timeout);
00130
```

```
00131
00138
00139
          inline unsigned int sendCommand(const char *command) {
             return sendCommand(command, (bool) false);
00140
          }
00141
00145
          inline unsigned int sendCommand() {
00146
             return sendCommand("");
00147
00148
00155
00156
          return readResponse(timeout, false);
}
          inline unsigned int readResponse(unsigned long timeout) {
00157
00158
00166
          unsigned int readResponse (unsigned long timeout, bool append);
00167
00178
00179
          bool wasResponseFullyRead();
00186
          const char *findInResponse(const char *str);
00187
00195
          int waitUntilReceive(const char *str, unsigned int timeout);
00196
          void discardBuffer();
00200
00201 };
00202
00203 #endif /* __ARDUINO_SOFTWARE_SERIAL_ATTENTION_DEVICE_H__ */
```

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