

QtXBee

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Contents

1	Hierarchical Index	1
1.1	Class Hierarchy	1
2	Class Index	3
2.1	Class List	3
3	File Index	5
3.1	File List	5
4	Class Documentation	7
4.1	ATCommand Class Reference	7
4.1.1	Constructor & Destructor Documentation	8
4.1.1.1	ATCommand()	8
4.1.1.2	~ATCommand()	8
4.1.2	Member Function Documentation	8
4.1.2.1	getATCommand()	8
4.1.2.2	getATParameter()	8
4.1.2.3	getFrameData()	8
4.1.2.4	getFrameID()	8
4.1.2.5	getFrameType() const	8
4.1.2.6	setATCommand(QString)	8
4.1.2.7	setATParameter(QByteArray array)	8
4.1.2.8	setFrameData(QByteArray)	8
4.1.2.9	setFrameID(uint8_t)	8
4.2	ATCommandQueue Class Reference	9

4.2.1	Member Function Documentation	9
4.2.1.1	getFrameType() const	9
4.3	ATCommandRemote Class Reference	10
4.3.1	Constructor & Destructor Documentation	10
4.3.1.1	ATCommandRemote()	10
4.3.2	Member Function Documentation	10
4.3.2.1	getCommandOptions()	10
4.3.2.2	getDestinationAddress16()	10
4.3.2.3	getDestinationAddress64()	10
4.3.2.4	getFrameData()	10
4.3.2.5	getFrameType() const	11
4.3.2.6	setCommandOptions(uint8_t)	11
4.3.2.7	setDestinationAddress16(QByteArray)	11
4.3.2.8	setDestinationAddress64(QByteArray)	11
4.3.2.9	setFrameData(QByteArray)	11
4.4	ATCommandResponse Class Reference	11
4.4.1	Constructor & Destructor Documentation	12
4.4.1.1	ATCommandResponse()	12
4.4.1.2	~ATCommandResponse()	12
4.4.2	Member Function Documentation	12
4.4.2.1	getATCommand()	12
4.4.2.2	getCommandData()	12
4.4.2.3	getCommandStatus()	12
4.4.2.4	getFrameData()	12
4.4.2.5	getFrameID()	12
4.4.2.6	getFrameType() const	12
4.4.2.7	setATCommand(QString)	12
4.4.2.8	setCommandData(QByteArray)	12
4.4.2.9	setCommandStatus(uint8_t)	12
4.4.2.10	setFrameData(QByteArray)	12

4.4.2.11	setFrameID(uint8_t)	13
4.5	ATCommandResponseRemote Class Reference	13
4.5.1	Constructor & Destructor Documentation	13
4.5.1.1	ATCommandResponseRemote()	13
4.5.2	Member Function Documentation	13
4.5.2.1	getFrameData()	13
4.5.2.2	getFrameType() const	14
4.5.2.3	getSourceAddress16()	14
4.5.2.4	getSourceAddress64()	14
4.5.2.5	setFrameData(QByteArray)	14
4.5.2.6	setSourceAddress16(QByteArray)	14
4.5.2.7	setSourceAddress64(QByteArray)	14
4.6	ModemStatus Class Reference	14
4.6.1	Constructor & Destructor Documentation	15
4.6.1.1	ModemStatus()	15
4.6.1.2	~ModemStatus()	15
4.6.2	Member Function Documentation	15
4.6.2.1	getFrameData()	15
4.6.2.2	getFrameType() const	15
4.6.2.3	getStatus()	15
4.6.2.4	setFrameData(QByteArray)	15
4.6.2.5	setStatus(uint8_t)	15
4.7	NodeIdentificationIndicator Class Reference	15
4.7.1	Constructor & Destructor Documentation	16
4.7.1.1	NodeIdentificationIndicator()	16
4.7.1.2	~NodeIdentificationIndicator()	16
4.7.2	Member Function Documentation	16
4.7.2.1	getDeviceType()	16
4.7.2.2	getDeviceTypeID()	16
4.7.2.3	getFrameData()	16

4.7.2.4	getFrameType() const	17
4.7.2.5	getManufacturerID()	17
4.7.2.6	getNIString()	17
4.7.2.7	getParentAddress16()	17
4.7.2.8	getProfileID()	17
4.7.2.9	getReceiveOptions()	17
4.7.2.10	getRemoteAddress16()	17
4.7.2.11	getRemoteAddress64()	17
4.7.2.12	getRSSI()	17
4.7.2.13	getSourceAddress16()	17
4.7.2.14	getSourceAddress64()	17
4.7.2.15	getSourceEvent()	17
4.7.2.16	setDeviceType(uint8_t)	17
4.7.2.17	setDeviceTypeID(QByteArray)	17
4.7.2.18	setFrameData(QByteArray)	17
4.7.2.19	setManufacturerID(QByteArray)	17
4.7.2.20	setNIString(QString)	17
4.7.2.21	setParentAddress16(QByteArray)	17
4.7.2.22	setProfileID(QByteArray)	17
4.7.2.23	setReceiveOptions(uint8_t)	17
4.7.2.24	setRemoteAddress16(QByteArray)	17
4.7.2.25	setRemoteAddress64(QByteArray)	17
4.7.2.26	setRSSI(QByteArray)	17
4.7.2.27	setSourceAddress16(QByteArray)	17
4.7.2.28	setSourceAddress64(QByteArray)	17
4.7.2.29	setSourceEvent(uint8_t)	17
4.8	QXBee Class Reference	18
4.8.1	Detailed Description	18
4.8.2	Constructor & Destructor Documentation	19
4.8.2.1	QXBee(QSerialPort *ser)	19

4.8.2.2	~QXBee()	19
4.8.3	Member Function Documentation	19
4.8.3.1	broadcast(QString data)	19
4.8.3.2	dataReceived	19
4.8.3.3	send(XBeePacket *request)	19
4.8.3.4	unicast(QByteArray address, QString data)	19
4.9	RXIndicator Class Reference	19
4.9.1	Constructor & Destructor Documentation	20
4.9.1.1	RXIndicator()	20
4.9.1.2	~RXIndicator()	20
4.9.2	Member Function Documentation	20
4.9.2.1	getFrameData()	20
4.9.2.2	getFrameType() const	20
4.9.2.3	getReceivedData()	21
4.9.2.4	getReceiveOptions()	21
4.9.2.5	getSourceAddress16()	21
4.9.2.6	getSourceAddress64()	21
4.9.2.7	setFrameData(QByteArray)	21
4.9.2.8	setReceivedData(QByteArray)	21
4.9.2.9	setReceiveOptions(uint8_t)	21
4.9.2.10	setSourceAddress16(QByteArray)	21
4.9.2.11	setSourceAddress64(QByteArray)	21
4.10	RXIndicatorExplicit Class Reference	21
4.10.1	Constructor & Destructor Documentation	22
4.10.1.1	RXIndicatorExplicit()	22
4.10.2	Member Function Documentation	22
4.10.2.1	getClusterID()	22
4.10.2.2	getDestinationEndpoint()	22
4.10.2.3	getFrameData()	22
4.10.2.4	getFrameType() const	22

4.10.2.5	getProfileID()	22
4.10.2.6	getSourceEndpoint()	22
4.10.2.7	setClusterID(QByteArray)	22
4.10.2.8	setDestinationEndpoint(uint8_t)	22
4.10.2.9	setFrameData(QByteArray)	22
4.10.2.10	setProfileID(QByteArray)	23
4.10.2.11	setSourceEndpoint(uint8_t)	23
4.11	TransmitStatus Class Reference	23
4.11.1	Constructor & Destructor Documentation	24
4.11.1.1	TransmitStatus()	24
4.11.1.2	~TransmitStatus()	24
4.11.2	Member Function Documentation	24
4.11.2.1	getDeliveryStatus()	24
4.11.2.2	getDestinationAddress16()	24
4.11.2.3	getDiscoveryStatus()	24
4.11.2.4	getFrameData()	24
4.11.2.5	getFrameID()	24
4.11.2.6	getFrameType() const	24
4.11.2.7	getTransmitRetryCount()	24
4.11.2.8	setDeliveryStatus(uint8_t)	24
4.11.2.9	setDestinationAddress16(QByteArray)	24
4.11.2.10	setDiscoveryStatus(uint8_t)	24
4.11.2.11	setFrameData(QByteArray)	24
4.11.2.12	setFrameID(uint8_t)	24
4.11.2.13	setTransmitRetryCount(uint8_t)	24
4.12	TXRequest Class Reference	25
4.12.1	Constructor & Destructor Documentation	25
4.12.1.1	TXRequest()	25
4.12.1.2	~TXRequest()	25
4.12.2	Member Function Documentation	26

4.12.2.1	getBroadcastRadius()	26
4.12.2.2	getDestinationAddress16()	26
4.12.2.3	getDestinationAddress64()	26
4.12.2.4	getFrameData()	26
4.12.2.5	getFrameID()	26
4.12.2.6	getFrameType() const	26
4.12.2.7	getTransmittingData()	26
4.12.2.8	getTransmitOptions()	26
4.12.2.9	setBroadcastRadius(uint8_t)	26
4.12.2.10	setDestinationAddress16(QByteArray)	26
4.12.2.11	setDestinationAddress64(QByteArray)	26
4.12.2.12	setFrameData(QByteArray)	26
4.12.2.13	setFrameID(uint8_t)	26
4.12.2.14	setTransmittingData(QByteArray)	26
4.12.2.15	setTransmitOptions(uint8_t)	26
4.13	TXRequestExplicit Class Reference	27
4.13.1	Constructor & Destructor Documentation	27
4.13.1.1	TXRequestExplicit()	27
4.13.2	Member Function Documentation	27
4.13.2.1	getClusterID()	27
4.13.2.2	getDestinationEndpoint()	27
4.13.2.3	getFrameData()	27
4.13.2.4	getFrameType() const	28
4.13.2.5	getProfileID()	28
4.13.2.6	getSourceEndpoint()	28
4.13.2.7	setClusterID(QByteArray)	28
4.13.2.8	setDestinationEndpoint(uint8_t)	28
4.13.2.9	setFrameData(QByteArray)	28
4.13.2.10	setProfileID(QByteArray)	28
4.13.2.11	setSourceEndpoint(uint8_t)	28

4.14 XBeePacket Class Reference	28
4.14.1 Constructor & Destructor Documentation	29
4.14.1.1 ~XBeePacket()	29
4.14.2 Member Function Documentation	29
4.14.2.1 getFrameData()=0	29
4.14.2.2 getFrameType() const =0	29
4.14.2.3 operator int()	29
4.14.2.4 setFrameData(QByteArray)=0	29
4.14.3 Member Data Documentation	30
4.14.3.1 pATCommand	30
4.14.3.2 pATCommandQueue	30
4.14.3.3 pATCommandRemote	30
4.14.3.4 pATCommandResponse	30
4.14.3.5 pATCommandResponseRemote	30
4.14.3.6 pModemStatus	30
4.14.3.7 pNodeIdentificationIndicator	30
4.14.3.8 pRXIndicator	30
4.14.3.9 pRXIndicatorExplicit	30
4.14.3.10 pTransmitStatus	30
4.14.3.11 pTXRequest	30
4.14.3.12 pTXRequestExplicit	30
5 File Documentation	31
5.1 src/QXBee/QXBee.h File Reference	31
5.2 src/QXBee/XBeePacket/ATCommand.h File Reference	31
5.3 src/QXBee/XBeePacket/ATCommandQueue.h File Reference	31
5.4 src/QXBee/XBeePacket/ATCommandRemote.h File Reference	31
5.5 src/QXBee/XBeePacket/ATCommandResponse.h File Reference	31
5.6 src/QXBee/XBeePacket/ATCommandResponseRemote.h File Reference	32
5.7 src/QXBee/XBeePacket/ModemStatus.h File Reference	32
5.8 src/QXBee/XBeePacket/NodeIdentificationIndicator.h File Reference	32
5.9 src/QXBee/XBeePacket/RXIndicator.h File Reference	32
5.10 src/QXBee/XBeePacket/RXIndicatorExplicit.h File Reference	32
5.11 src/QXBee/XBeePacket/TransmitStatus.h File Reference	32
5.12 src/QXBee/XBeePacket/TXRequest.h File Reference	32
5.13 src/QXBee/XBeePacket/TXRequestExplicit.h File Reference	33
5.14 src/QXBee/XBeePacket/XBeePacket.h File Reference	33
Index	35

Chapter 1

Hierarchical Index

1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

QObject	
QXBee	18
XBeePacket	28
ATCommand	7
ATCommandQueue	9
ATCommandRemote	10
ATCommandResponse	11
ATCommandResponseRemote	13
ModemStatus	14
NodeIdentificationIndicator	15
RXIndicator	19
RXIndicatorExplicit	21
TransmitStatus	23
TXRequest	25
TXRequestExplicit	27

Chapter 2

Class Index

2.1 Class List

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

ATCommand	7
ATCommandQueue	9
ATCommandRemote	10
ATCommandResponse	11
ATCommandResponseRemote	13
ModemStatus	14
NodeIdentificationIndicator	15
QXBee	
Bi-directional communication with a XBee device thru serial port	18
RXIndicator	19
RXIndicatorExplicit	21
TransmitStatus	23
TXRequest	25
TXRequestExplicit	27
XBeePacket	28

Chapter 3

File Index

3.1 File List

Here is a list of all files with brief descriptions:

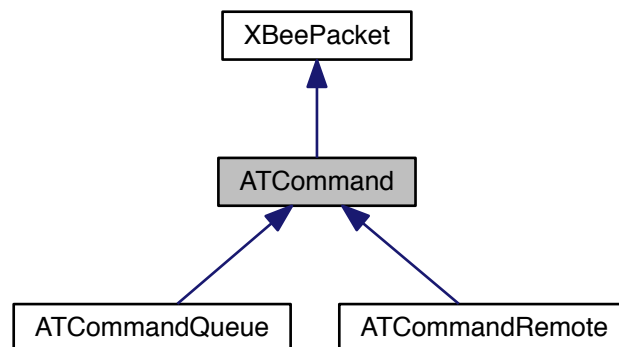
src/QXBee/ QXBee.h	31
src/QXBee/XBeePacket/ ATCommand.h	31
src/QXBee/XBeePacket/ ATCommandQueue.h	31
src/QXBee/XBeePacket/ ATCommandRemote.h	31
src/QXBee/XBeePacket/ ATCommandResponse.h	31
src/QXBee/XBeePacket/ ATCommandResponseRemote.h	32
src/QXBee/XBeePacket/ ModemStatus.h	32
src/QXBee/XBeePacket/ NodeIdentificationIndicator.h	32
src/QXBee/XBeePacket/ RXIndicator.h	32
src/QXBee/XBeePacket/ RXIndicatorExplicit.h	32
src/QXBee/XBeePacket/ TransmitStatus.h	32
src/QXBee/XBeePacket/ TXRequest.h	32
src/QXBee/XBeePacket/ TXRequestExplicit.h	33
src/QXBee/XBeePacket/ XBeePacket.h	33

Chapter 4

Class Documentation

4.1 ATCommand Class Reference

Inheritance diagram for ATCommand:



Public Member Functions

- [ATCommand](#) ()
- virtual uint8_t [getFrameType](#) () const
- uint8_t [getFrameID](#) ()
- QByteArray [getATCommand](#) ()
- QByteArray [getATParameter](#) ()
- virtual QByteArray [getFrameData](#) ()
- void [setFrameID](#) (uint8_t)
- void [setATCommand](#) (QString)
- void [setATParameter](#) (QByteArray array)
- virtual void [setFrameData](#) (QByteArray)
- virtual [~ATCommand](#) ()

Additional Inherited Members

4.1.1 Constructor & Destructor Documentation

4.1.1.1 `ATCommand::ATCommand ()`

4.1.1.2 `virtual ATCommand::~~ATCommand ()` `[virtual]`

4.1.2 Member Function Documentation

4.1.2.1 `QByteArray ATCommand::getATCommand ()`

4.1.2.2 `QByteArray ATCommand::getATParameter ()`

4.1.2.3 `virtual QByteArray ATCommand::getFrameData ()` `[virtual]`

Implements [XBeePacket](#).

Reimplemented in [ATCommandRemote](#).

4.1.2.4 `uint8_t ATCommand::getFrameID ()`

4.1.2.5 `virtual uint8_t ATCommand::getFrameType () const` `[inline], [virtual]`

Implements [XBeePacket](#).

Reimplemented in [ATCommandRemote](#), and [ATCommandQueue](#).

4.1.2.6 `void ATCommand::setATCommand (QString)`

4.1.2.7 `void ATCommand::setATParameter (QByteArray array)`

4.1.2.8 `virtual void ATCommand::setFrameData (QByteArray)` `[virtual]`

Implements [XBeePacket](#).

Reimplemented in [ATCommandRemote](#).

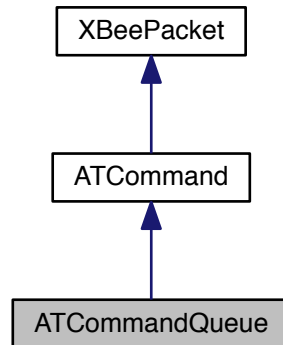
4.1.2.9 `void ATCommand::setFrameID (uint8_t)`

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

- `src/QXBee/XBeePacket/ATCommand.h`

4.2 ATCommandQueue Class Reference

Inheritance diagram for ATCommandQueue:



Public Member Functions

- virtual uint8_t [getFrameType](#) () const

Additional Inherited Members

4.2.1 Member Function Documentation

4.2.1.1 virtual uint8_t ATCommandQueue::getFrameType () const [inline],[virtual]

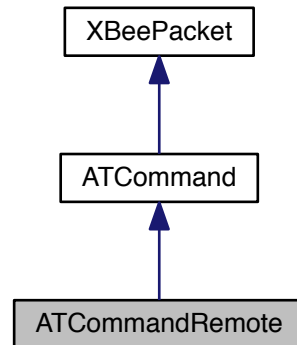
Reimplemented from [ATCommand](#).

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

- src/QXBee/XBeePacket/[ATCommandQueue.h](#)

4.3 ATCommandRemote Class Reference

Inheritance diagram for ATCommandRemote:



Public Member Functions

- [ATCommandRemote](#) ()
- virtual uint8_t [getFrameType](#) () const
- QByteArray [getDestinationAddress64](#) ()
- QByteArray [getDestinationAddress16](#) ()
- uint8_t [getCommandOptions](#) ()
- QByteArray [getFrameData](#) ()
- void [setDestinationAddress64](#) (QByteArray)
- void [setDestinationAddress16](#) (QByteArray)
- void [setCommandOptions](#) (uint8_t)
- void [setFrameData](#) (QByteArray)

Additional Inherited Members

4.3.1 Constructor & Destructor Documentation

4.3.1.1 `ATCommandRemote::ATCommandRemote ()`

4.3.2 Member Function Documentation

4.3.2.1 `uint8_t ATCommandRemote::getCommandOptions ()`

4.3.2.2 `QByteArray ATCommandRemote::getDestinationAddress16 ()`

4.3.2.3 `QByteArray ATCommandRemote::getDestinationAddress64 ()`

4.3.2.4 `QByteArray ATCommandRemote::getFrameData ()` [virtual]

Reimplemented from [ATCommand](#).

4.3.2.5 `virtual uint8_t ATCommandRemote::getFrameType () const` `[inline],[virtual]`

Reimplemented from [ATCommand](#).

4.3.2.6 `void ATCommandRemote::setCommandOptions (uint8_t)`

4.3.2.7 `void ATCommandRemote::setDestinationAddress16 (QByteArray)`

4.3.2.8 `void ATCommandRemote::setDestinationAddress64 (QByteArray)`

4.3.2.9 `void ATCommandRemote::setFrameData (QByteArray)` `[virtual]`

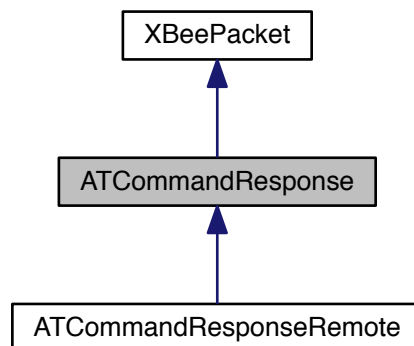
Reimplemented from [ATCommand](#).

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

- `src/QXBee/XBeePacket/ATCommandRemote.h`

4.4 ATCommandResponse Class Reference

Inheritance diagram for ATCommandResponse:



Public Member Functions

- [ATCommandResponse](#) ()
- `virtual uint8_t getFrameType () const`
- `uint8_t getFrameID ()`
- `QString getATCommand ()`
- `uint8_t getCommandStatus ()`
- `QByteArray getCommandData ()`
- `virtual QByteArray getFrameData ()`
- `virtual void setFrameData (QByteArray)`
- `virtual ~ATCommandResponse ()`

Protected Member Functions

- void [setFrameID](#) (uint8_t)
- void [setATCommand](#) (QString)
- void [setCommandStatus](#) (uint8_t)
- void [setCommandData](#) (QByteArray)

Additional Inherited Members

4.4.1 Constructor & Destructor Documentation

4.4.1.1 [ATCommandResponse::ATCommandResponse \(\)](#)

4.4.1.2 [virtual ATCommandResponse::~~ATCommandResponse \(\)](#) [virtual]

4.4.2 Member Function Documentation

4.4.2.1 [QString ATCommandResponse::getATCommand \(\)](#)

4.4.2.2 [QByteArray ATCommandResponse::getCommandData \(\)](#)

4.4.2.3 [uint8_t ATCommandResponse::getCommandStatus \(\)](#)

4.4.2.4 [virtual QByteArray ATCommandResponse::getFrameData \(\)](#) [virtual]

Implements [XBeePacket](#).

Reimplemented in [ATCommandResponseRemote](#).

4.4.2.5 [uint8_t ATCommandResponse::getFrameID \(\)](#)

4.4.2.6 [virtual uint8_t ATCommandResponse::getFrameType \(\) const](#) [inline],[virtual]

Implements [XBeePacket](#).

Reimplemented in [ATCommandResponseRemote](#).

4.4.2.7 [void ATCommandResponse::setATCommand \(QString \)](#) [protected]

4.4.2.8 [void ATCommandResponse::setCommandData \(QByteArray \)](#) [protected]

4.4.2.9 [void ATCommandResponse::setCommandStatus \(uint8_t \)](#) [protected]

4.4.2.10 [virtual void ATCommandResponse::setFrameData \(QByteArray \)](#) [virtual]

Implements [XBeePacket](#).

Reimplemented in [ATCommandResponseRemote](#).

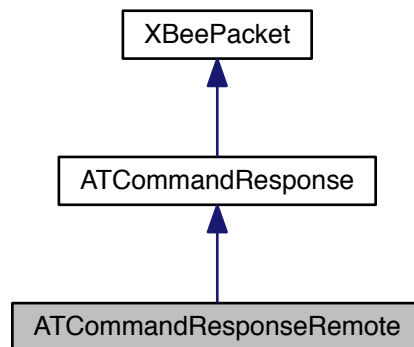
4.4.2.11 void ATCommandResponse::setFrameID (uint8_t) [protected]

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

- src/QXBee/XBeePacket/ATCommandResponse.h

4.5 ATCommandResponseRemote Class Reference

Inheritance diagram for ATCommandResponseRemote:



Public Member Functions

- [ATCommandResponseRemote](#) ()
- virtual uint8_t [getFrameType](#) () const
- QByteArray [getSourceAddress64](#) ()
- QByteArray [getSourceAddress16](#) ()
- QByteArray [getFrameData](#) ()
- void [setFrameData](#) (QByteArray)

Protected Member Functions

- void [setSourceAddress64](#) (QByteArray)
- void [setSourceAddress16](#) (QByteArray)

Additional Inherited Members

4.5.1 Constructor & Destructor Documentation

4.5.1.1 ATCommandResponseRemote::ATCommandResponseRemote ()

4.5.2 Member Function Documentation

4.5.2.1 QByteArray ATCommandResponseRemote::getFrameData () [virtual]

Reimplemented from [ATCommandResponse](#).

4.5.2.2 `virtual uint8_t ATCommandResponseRemote::getFrameType () const` `[inline],[virtual]`

Reimplemented from [ATCommandResponse](#).

4.5.2.3 `QByteArray ATCommandResponseRemote::getSourceAddress16 ()`

4.5.2.4 `QByteArray ATCommandResponseRemote::getSourceAddress64 ()`

4.5.2.5 `void ATCommandResponseRemote::setFrameData (QByteArray)` `[virtual]`

Reimplemented from [ATCommandResponse](#).

4.5.2.6 `void ATCommandResponseRemote::setSourceAddress16 (QByteArray)` `[protected]`

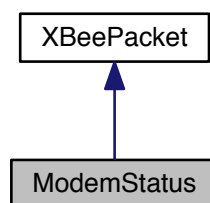
4.5.2.7 `void ATCommandResponseRemote::setSourceAddress64 (QByteArray)` `[protected]`

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

- `src/QXBee/XBeePacket/ATCommandResponseRemote.h`

4.6 ModemStatus Class Reference

Inheritance diagram for ModemStatus:



Public Member Functions

- [ModemStatus](#) ()
- `virtual uint8_t getFrameType () const`
- `uint8_t getStatus ()`
- `QByteArray getFrameData ()`
- `void setFrameData (QByteArray)`
- `virtual ~ModemStatus ()`

Protected Member Functions

- void [setStatus](#) (uint8_t)

Additional Inherited Members

4.6.1 Constructor & Destructor Documentation

4.6.1.1 `ModemStatus::ModemStatus ()`

4.6.1.2 `virtual ModemStatus::~~ModemStatus ()` [virtual]

4.6.2 Member Function Documentation

4.6.2.1 `QByteArray ModemStatus::getFrameData ()` [virtual]

Implements [XBeePacket](#).

4.6.2.2 `virtual uint8_t ModemStatus::getFrameType () const` [inline],[virtual]

Implements [XBeePacket](#).

4.6.2.3 `uint8_t ModemStatus::getStatus ()`

4.6.2.4 `void ModemStatus::setFrameData (QByteArray)` [virtual]

Implements [XBeePacket](#).

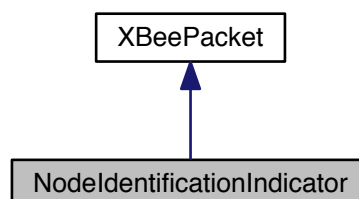
4.6.2.5 `void ModemStatus::setStatus (uint8_t)` [protected]

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

- `src/QXBee/XBeePacket/ModemStatus.h`

4.7 NodeIdentificationIndicator Class Reference

Inheritance diagram for NodeIdentificationIndicator:



Public Member Functions

- [NodeIdentificationIndicator](#) ()
- virtual uint8_t [getFrameType](#) () const
- QByteArray [getSourceAddress64](#) ()
- QByteArray [getSourceAddress16](#) ()
- uint8_t [getReceiveOptions](#) ()
- QByteArray [getRemoteAddress64](#) ()
- QByteArray [getRemoteAddress16](#) ()
- QString [getNlString](#) ()
- QByteArray [getParentAddress16](#) ()
- uint8_t [getDeviceType](#) ()
- uint8_t [getSourceEvent](#) ()
- QByteArray [getProfileID](#) ()
- QByteArray [getManufacturerID](#) ()
- QByteArray [getDeviceTypeID](#) ()
- QByteArray [getRSSI](#) ()
- QByteArray [getFrameData](#) ()
- void [setFrameData](#) (QByteArray)
- virtual [~NodeIdentificationIndicator](#) ()

Protected Member Functions

- void [setSourceAddress64](#) (QByteArray)
- void [setSourceAddress16](#) (QByteArray)
- void [setReceiveOptions](#) (uint8_t)
- void [setRemoteAddress64](#) (QByteArray)
- void [setRemoteAddress16](#) (QByteArray)
- void [setNlString](#) (QString)
- void [setParentAddress16](#) (QByteArray)
- void [setDeviceType](#) (uint8_t)
- void [setSourceEvent](#) (uint8_t)
- void [setProfileID](#) (QByteArray)
- void [setManufacturerID](#) (QByteArray)
- void [setDeviceTypeID](#) (QByteArray)
- void [setRSSI](#) (QByteArray)

Additional Inherited Members

4.7.1 Constructor & Destructor Documentation

4.7.1.1 [NodeIdentificationIndicator::NodeIdentificationIndicator](#) ()

4.7.1.2 virtual [NodeIdentificationIndicator::~~NodeIdentificationIndicator](#) () [virtual]

4.7.2 Member Function Documentation

4.7.2.1 uint8_t [NodeIdentificationIndicator::getDeviceType](#) ()

4.7.2.2 QByteArray [NodeIdentificationIndicator::getDeviceTypeID](#) ()

4.7.2.3 QByteArray [NodeIdentificationIndicator::getFrameData](#) () [virtual]

Implements [XBeePacket](#).

4.7.2.4 virtual uint8_t NodeIdentificationIndicator::getFrameType () const [inline],[virtual]

Implements [XBeePacket](#).

4.7.2.5 QByteArray NodeIdentificationIndicator::getManufacturerID ()

4.7.2.6 QString NodeIdentificationIndicator::getNString ()

4.7.2.7 QByteArray NodeIdentificationIndicator::getParentAddress16 ()

4.7.2.8 QByteArray NodeIdentificationIndicator::getProfileID ()

4.7.2.9 uint8_t NodeIdentificationIndicator::getReceiveOptions ()

4.7.2.10 QByteArray NodeIdentificationIndicator::getRemoteAddress16 ()

4.7.2.11 QByteArray NodeIdentificationIndicator::getRemoteAddress64 ()

4.7.2.12 QByteArray NodeIdentificationIndicator::getRSSI ()

4.7.2.13 QByteArray NodeIdentificationIndicator::getSourceAddress16 ()

4.7.2.14 QByteArray NodeIdentificationIndicator::getSourceAddress64 ()

4.7.2.15 uint8_t NodeIdentificationIndicator::getSourceEvent ()

4.7.2.16 void NodeIdentificationIndicator::setDeviceType (uint8_t) [protected]

4.7.2.17 void NodeIdentificationIndicator::setDeviceTypeID (QByteArray) [protected]

4.7.2.18 void NodeIdentificationIndicator::setFrameData (QByteArray) [virtual]

Implements [XBeePacket](#).

4.7.2.19 void NodeIdentificationIndicator::setManufacturerID (QByteArray) [protected]

4.7.2.20 void NodeIdentificationIndicator::setNString (QString) [protected]

4.7.2.21 void NodeIdentificationIndicator::setParentAddress16 (QByteArray) [protected]

4.7.2.22 void NodeIdentificationIndicator::setProfileID (QByteArray) [protected]

4.7.2.23 void NodeIdentificationIndicator::setReceiveOptions (uint8_t) [protected]

4.7.2.24 void NodeIdentificationIndicator::setRemoteAddress16 (QByteArray) [protected]

4.7.2.25 void NodeIdentificationIndicator::setRemoteAddress64 (QByteArray) [protected]

4.7.2.26 void NodeIdentificationIndicator::setRSSI (QByteArray) [protected]

4.7.2.27 void NodeIdentificationIndicator::setSourceAddress16 (QByteArray) [protected]

4.7.2.28 void NodeIdentificationIndicator::setSourceAddress64 (QByteArray) [protected]

4.7.2.29 void NodeIdentificationIndicator::setSourceEvent (uint8_t) [protected]

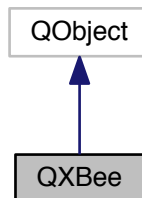
The documentation for this class was generated from the following file:

- src/QXBee/XBeePacket/[NodeIdentificationIndicator.h](#)

4.8 QXBee Class Reference

The [QXBee](#) class provides bi-directional communication with a XBee device thru serial port.

Inheritance diagram for QXBee:



Signals

- void [dataReceived](#) (std::shared_ptr< [XBeePacket](#) >)

This signal is emitted whenever a packet arrives.

Public Member Functions

- [QXBee](#) (QSerialPort *ser)
- void [send](#) ([XBeePacket](#) *request)
This function sends a packet to the XBee module.
- void [broadcast](#) (QString data)
This function broadcasts a string to any accessible XBee device.
- void [unicast](#) (QByteArray address, QString data)
This function sends a string to a single XBee device specified by it's address.
- ~[QXBee](#) ()

4.8.1 Detailed Description

The [QXBee](#) class provides bi-directional communication with a XBee device thru serial port.

This class can send and receive data using Digi's XBee API protocol mode 1 or 2. There are also included two helper functions, that can easily unicast or broadcast data to XBee devices. This class uses `QObject` signals and slots, and emits a signal whenever a new packet arrive, it also needs a previously setup `QSerialPort` for communication.

Example:

```
QSerialPort serial;
serial.setPortName("/dev/ttyUSB1");
serial.setBaudRate(QSerialPort::Baud9600);
serial.setDataBits(QSerialPort::Data8);
serial.setParity(QSerialPort::NoParity);
serial.setStopBits(QSerialPort::OneStop);
serial.setFlowControl(QSerialPort::NoFlowControl);

xbee = new QXBee(&serial);
xbee->broadcast("Hello World!");
```

4.8.2 Constructor & Destructor Documentation

4.8.2.1 `QXBee::QXBee (QSerialPort * ser)`

4.8.2.2 `QXBee::~~QXBee ()`

4.8.3 Member Function Documentation

4.8.3.1 `void QXBee::broadcast (QString data)`

This function broadcasts a string to any accessible XBee device.

4.8.3.2 `void QXBee::dataReceived (std::shared_ptr< XBeePacket >)` [signal]

This signal is emitted whenever a packet arrives.

4.8.3.3 `void QXBee::send (XBeePacket * request)`

This function sends a packet to the XBee module.

4.8.3.4 `void QXBee::unicast (QByteArray address, QString data)`

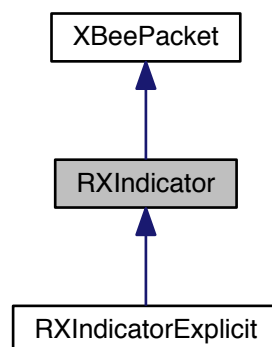
This function sends a string to a single XBee device specified by it's address.

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

- `src/QXBee/QXBee.h`

4.9 RXIndicator Class Reference

Inheritance diagram for RXIndicator:



Public Member Functions

- [RXIndicator](#) ()
- virtual uint8_t [getFrameType](#) () const
- QByteArray [getSourceAddress64](#) ()
- QByteArray [getSourceAddress16](#) ()
- uint8_t [getReceiveOptions](#) ()
- QByteArray [getReceivedData](#) ()
- virtual QByteArray [getFrameData](#) ()
- virtual void [setFrameData](#) (QByteArray)
- virtual [~RXIndicator](#) ()

Protected Member Functions

- void [setSourceAddress64](#) (QByteArray)
- void [setSourceAddress16](#) (QByteArray)
- void [setReceiveOptions](#) (uint8_t)
- void [setReceivedData](#) (QByteArray)

Additional Inherited Members

4.9.1 Constructor & Destructor Documentation

4.9.1.1 [RXIndicator::RXIndicator](#) ()

4.9.1.2 virtual [RXIndicator::~~RXIndicator](#) () [virtual]

4.9.2 Member Function Documentation

4.9.2.1 virtual QByteArray [RXIndicator::getFrameData](#) () [virtual]

Implements [XBeePacket](#).

Reimplemented in [RXIndicatorExplicit](#).

4.9.2.2 virtual uint8_t [RXIndicator::getFrameType](#) () const [inline], [virtual]

Implements [XBeePacket](#).

Reimplemented in [RXIndicatorExplicit](#).

4.9.2.3 QByteArray RXIndicator::getReceivedData ()

4.9.2.4 uint8_t RXIndicator::getReceiveOptions ()

4.9.2.5 QByteArray RXIndicator::getSourceAddress16 ()

4.9.2.6 QByteArray RXIndicator::getSourceAddress64 ()

4.9.2.7 virtual void RXIndicator::setFrameData (QByteArray) [virtual]

Implements [XBeePacket](#).

Reimplemented in [RXIndicatorExplicit](#).

4.9.2.8 void RXIndicator::setReceivedData (QByteArray) [protected]

4.9.2.9 void RXIndicator::setReceiveOptions (uint8_t) [protected]

4.9.2.10 void RXIndicator::setSourceAddress16 (QByteArray) [protected]

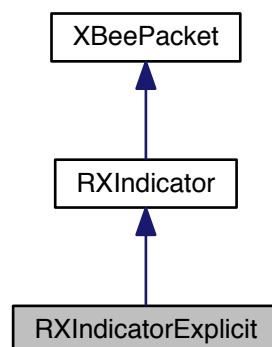
4.9.2.11 void RXIndicator::setSourceAddress64 (QByteArray) [protected]

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

- [src/QXBee/XBeePacket/RXIndicator.h](#)

4.10 RXIndicatorExplicit Class Reference

Inheritance diagram for RXIndicatorExplicit:



Public Member Functions

- [RXIndicatorExplicit](#) ()
- virtual uint8_t [getFrameType](#) () const
- uint8_t [getSourceEndpoint](#) ()
- uint8_t [getDestinationEndpoint](#) ()
- QByteArray [getClusterID](#) ()
- QByteArray [getProfileID](#) ()
- QByteArray [getFrameData](#) ()
- void [setFrameData](#) (QByteArray)

Protected Member Functions

- void [setSourceEndpoint](#) (uint8_t)
- void [setDestinationEndpoint](#) (uint8_t)
- void [setClusterID](#) (QByteArray)
- void [setProfileID](#) (QByteArray)

Additional Inherited Members

4.10.1 Constructor & Destructor Documentation

4.10.1.1 [RXIndicatorExplicit::RXIndicatorExplicit](#) ()

4.10.2 Member Function Documentation

4.10.2.1 QByteArray [RXIndicatorExplicit::getClusterID](#) ()

4.10.2.2 uint8_t [RXIndicatorExplicit::getDestinationEndpoint](#) ()

4.10.2.3 QByteArray [RXIndicatorExplicit::getFrameData](#) () [virtual]

Reimplemented from [RXIndicator](#).

4.10.2.4 virtual uint8_t [RXIndicatorExplicit::getFrameType](#) () const [inline],[virtual]

Reimplemented from [RXIndicator](#).

4.10.2.5 QByteArray [RXIndicatorExplicit::getProfileID](#) ()

4.10.2.6 uint8_t [RXIndicatorExplicit::getSourceEndpoint](#) ()

4.10.2.7 void [RXIndicatorExplicit::setClusterID](#) (QByteArray) [protected]

4.10.2.8 void [RXIndicatorExplicit::setDestinationEndpoint](#) (uint8_t) [protected]

4.10.2.9 void [RXIndicatorExplicit::setFrameData](#) (QByteArray) [virtual]

Reimplemented from [RXIndicator](#).

4.10.2.10 void RXIndicatorExplicit::setProfileID (QByteArray) [protected]

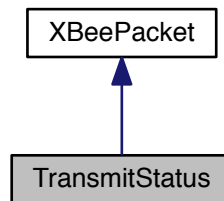
4.10.2.11 void RXIndicatorExplicit::setSourceEndpoint (uint8_t) [protected]

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

- src/QXBee/XBeePacket/RXIndicatorExplicit.h

4.11 TransmitStatus Class Reference

Inheritance diagram for TransmitStatus:



Public Member Functions

- [TransmitStatus](#) ()
- virtual uint8_t [getFrameType](#) () const
- uint8_t [getFrameID](#) ()
- QByteArray [getDestinationAddress16](#) ()
- uint8_t [getTransmitRetryCount](#) ()
- uint8_t [getDeliveryStatus](#) ()
- uint8_t [getDiscoveryStatus](#) ()
- QByteArray [getFrameData](#) ()
- void [setFrameData](#) (QByteArray)
- virtual [~TransmitStatus](#) ()

Protected Member Functions

- void [setFrameID](#) (uint8_t)
- void [setDestinationAddress16](#) (QByteArray)
- void [setTransmitRetryCount](#) (uint8_t)
- void [setDeliveryStatus](#) (uint8_t)
- void [setDiscoveryStatus](#) (uint8_t)

Additional Inherited Members

4.11.1 Constructor & Destructor Documentation

4.11.1.1 `TransmitStatus::TransmitStatus ()`

4.11.1.2 `virtual TransmitStatus::~~TransmitStatus ()` `[virtual]`

4.11.2 Member Function Documentation

4.11.2.1 `uint8_t TransmitStatus::getDeliveryStatus ()`

4.11.2.2 `QByteArray TransmitStatus::getDestinationAddress16 ()`

4.11.2.3 `uint8_t TransmitStatus::getDiscoveryStatus ()`

4.11.2.4 `QByteArray TransmitStatus::getFrameData ()` `[virtual]`

Implements [XBeePacket](#).

4.11.2.5 `uint8_t TransmitStatus::getFrameID ()`

4.11.2.6 `virtual uint8_t TransmitStatus::getFrameType () const` `[inline], [virtual]`

Implements [XBeePacket](#).

4.11.2.7 `uint8_t TransmitStatus::getTransmitRetryCount ()`

4.11.2.8 `void TransmitStatus::setDeliveryStatus (uint8_t)` `[protected]`

4.11.2.9 `void TransmitStatus::setDestinationAddress16 (QByteArray)` `[protected]`

4.11.2.10 `void TransmitStatus::setDiscoveryStatus (uint8_t)` `[protected]`

4.11.2.11 `void TransmitStatus::setFrameData (QByteArray)` `[virtual]`

Implements [XBeePacket](#).

4.11.2.12 `void TransmitStatus::setFrameID (uint8_t)` `[protected]`

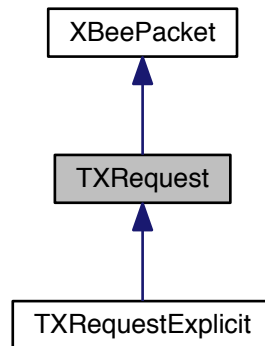
4.11.2.13 `void TransmitStatus::setTransmitRetryCount (uint8_t)` `[protected]`

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

- `src/QXBee/XBeePacket/TransmitStatus.h`

4.12 TXRequest Class Reference

Inheritance diagram for TXRequest:



Public Member Functions

- [TXRequest](#) ()
- virtual uint8_t [getFrameType](#) () const
- uint8_t [getFrameID](#) ()
- QByteArray [getDestinationAddress64](#) ()
- QByteArray [getDestinationAddress16](#) ()
- uint8_t [getBroadcastRadius](#) ()
- uint8_t [getTransmitOptions](#) ()
- QByteArray [getTransmittingData](#) ()
- virtual QByteArray [getFrameData](#) ()
- void [setFrameID](#) (uint8_t)
- void [setDestinationAddress64](#) (QByteArray)
- void [setDestinationAddress16](#) (QByteArray)
- void [setBroadcastRadius](#) (uint8_t)
- void [setTransmitOptions](#) (uint8_t)
- void [setTransmittingData](#) (QByteArray)
- virtual void [setFrameData](#) (QByteArray)
- virtual [~TXRequest](#) ()

Additional Inherited Members

4.12.1 Constructor & Destructor Documentation

4.12.1.1 `TXRequest::TXRequest ()`

4.12.1.2 `virtual TXRequest::~~TXRequest ()` `[virtual]`

4.12.2 Member Function Documentation

4.12.2.1 `uint8_t TXRequest::getBroadcastRadius ()`

4.12.2.2 `QByteArray TXRequest::getDestinationAddress16 ()`

4.12.2.3 `QByteArray TXRequest::getDestinationAddress64 ()`

4.12.2.4 `virtual QByteArray TXRequest::getFrameData ()` [virtual]

Implements [XBeePacket](#).

Reimplemented in [TXRequestExplicit](#).

4.12.2.5 `uint8_t TXRequest::getFrameID ()`

4.12.2.6 `virtual uint8_t TXRequest::getFrameType () const` [inline],[virtual]

Implements [XBeePacket](#).

Reimplemented in [TXRequestExplicit](#).

4.12.2.7 `QByteArray TXRequest::getTransmittingData ()`

4.12.2.8 `uint8_t TXRequest::getTransmitOptions ()`

4.12.2.9 `void TXRequest::setBroadcastRadius (uint8_t)`

4.12.2.10 `void TXRequest::setDestinationAddress16 (QByteArray)`

4.12.2.11 `void TXRequest::setDestinationAddress64 (QByteArray)`

4.12.2.12 `virtual void TXRequest::setFrameData (QByteArray)` [virtual]

Implements [XBeePacket](#).

Reimplemented in [TXRequestExplicit](#).

4.12.2.13 `void TXRequest::setFrameID (uint8_t)`

4.12.2.14 `void TXRequest::setTransmittingData (QByteArray)`

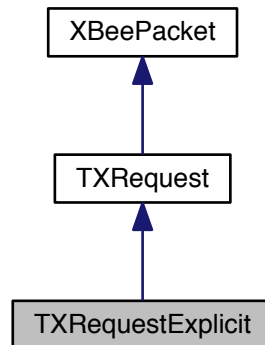
4.12.2.15 `void TXRequest::setTransmitOptions (uint8_t)`

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

- `src/QXBee/XBeePacket/TXRequest.h`

4.13 TXRequestExplicit Class Reference

Inheritance diagram for TXRequestExplicit:



Public Member Functions

- [TXRequestExplicit](#) ()
- virtual uint8_t [getFrameType](#) () const
- uint8_t [getSourceEndpoint](#) ()
- uint8_t [getDestinationEndpoint](#) ()
- QByteArray [getClusterID](#) ()
- QByteArray [getProfileID](#) ()
- QByteArray [getFrameData](#) ()
- void [setSourceEndpoint](#) (uint8_t)
- void [setDestinationEndpoint](#) (uint8_t)
- void [setClusterID](#) (QByteArray)
- void [setProfileID](#) (QByteArray)
- void [setFrameData](#) (QByteArray)

Additional Inherited Members

4.13.1 Constructor & Destructor Documentation

4.13.1.1 `TXRequestExplicit::TXRequestExplicit ()`

4.13.2 Member Function Documentation

4.13.2.1 `QByteArray TXRequestExplicit::getClusterID ()`

4.13.2.2 `uint8_t TXRequestExplicit::getDestinationEndpoint ()`

4.13.2.3 `QByteArray TXRequestExplicit::getFrameData ()` [virtual]

Reimplemented from [TXRequest](#).

4.13.2.4 `virtual uint8_t TXRequestExplicit::getFrameType () const` `[inline],[virtual]`

Reimplemented from [TXRequest](#).

4.13.2.5 `QByteArray TXRequestExplicit::getProfileID ()`

4.13.2.6 `uint8_t TXRequestExplicit::getSourceEndpoint ()`

4.13.2.7 `void TXRequestExplicit::setClusterID (QByteArray)`

4.13.2.8 `void TXRequestExplicit::setDestinationEndpoint (uint8_t)`

4.13.2.9 `void TXRequestExplicit::setFrameData (QByteArray)` `[virtual]`

Reimplemented from [TXRequest](#).

4.13.2.10 `void TXRequestExplicit::setProfileID (QByteArray)`

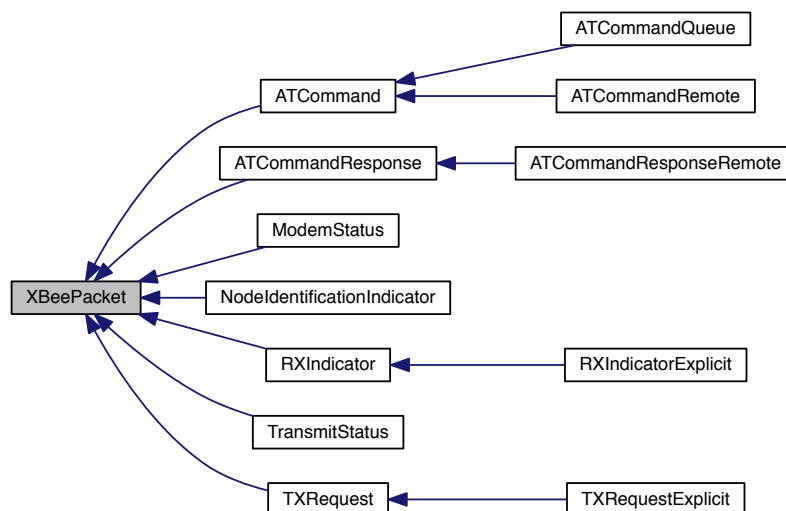
4.13.2.11 `void TXRequestExplicit::setSourceEndpoint (uint8_t)`

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

- [src/QXBee/XBeePacket/TXRequestExplicit.h](#)

4.14 XBeePacket Class Reference

Inheritance diagram for XBeePacket:



Public Member Functions

- virtual uint8_t [getFrameType](#) () const =0
- virtual QByteArray [getFrameData](#) ()=0
- virtual void [setFrameData](#) (QByteArray)=0
- virtual [~XBeePacket](#) ()
- virtual [operator int](#) ()

Static Public Attributes

- static const uint8_t [pATCommand](#) = 0x08
- static const uint8_t [pATCommandQueue](#) = 0x09
- static const uint8_t [pTXRequest](#) = 0x10
- static const uint8_t [pTXRequestExplicit](#) = 0x11
- static const uint8_t [pATCommandRemote](#) = 0x17
- static const uint8_t [pATCommandResponse](#) = 0x88
- static const uint8_t [pModemStatus](#) = 0x8A
- static const uint8_t [pTransmitStatus](#) = 0x8B
- static const uint8_t [pRXIndicator](#) = 0x90
- static const uint8_t [pRXIndicatorExplicit](#) = 0x91
- static const uint8_t [pNodeIdentificationIndicator](#) = 0x95
- static const uint8_t [pATCommandResponseRemote](#) = 0x97

4.14.1 Constructor & Destructor Documentation

4.14.1.1 virtual XBeePacket::~XBeePacket () [inline],[virtual]

4.14.2 Member Function Documentation

4.14.2.1 virtual QByteArray XBeePacket::getFrameData () [pure virtual]

Implemented in [NodeIdentificationIndicator](#), [TransmitStatus](#), [ATCommandResponse](#), [RXIndicator](#), [RXIndicator↔Explicit](#), [TXRequest](#), [ATCommandResponseRemote](#), [TXRequestExplicit](#), [ATCommand](#), [ATCommandRemote](#), and [ModemStatus](#).

4.14.2.2 virtual uint8_t XBeePacket::getFrameType () const [pure virtual]

Implemented in [NodeIdentificationIndicator](#), [TransmitStatus](#), [ATCommandResponse](#), [RXIndicator](#), [RXIndicator↔Explicit](#), [ATCommandResponseRemote](#), [TXRequest](#), [ATCommand](#), [ModemStatus](#), [TXRequestExplicit](#), [AT↔CommandRemote](#), and [ATCommandQueue](#).

4.14.2.3 virtual XBeePacket::operator int () [inline],[virtual]

4.14.2.4 virtual void XBeePacket::setFrameData (QByteArray) [pure virtual]

Implemented in [NodeIdentificationIndicator](#), [TXRequest](#), [TransmitStatus](#), [ATCommandResponse](#), [RXIndicator](#), [R↔XIndicatorExplicit](#), [TXRequestExplicit](#), [ATCommand](#), [ATCommandRemote](#), [ATCommandResponseRemote](#), and [ModemStatus](#).

4.14.3 Member Data Documentation

- 4.14.3.1 `const uint8_t XBeePacket::pATCommand = 0x08` `[static]`
- 4.14.3.2 `const uint8_t XBeePacket::pATCommandQueue = 0x09` `[static]`
- 4.14.3.3 `const uint8_t XBeePacket::pATCommandRemote = 0x17` `[static]`
- 4.14.3.4 `const uint8_t XBeePacket::pATCommandResponse = 0x88` `[static]`
- 4.14.3.5 `const uint8_t XBeePacket::pATCommandResponseRemote = 0x97` `[static]`
- 4.14.3.6 `const uint8_t XBeePacket::pModemStatus = 0x8A` `[static]`
- 4.14.3.7 `const uint8_t XBeePacket::pNodeIdentificationIndicator = 0x95` `[static]`
- 4.14.3.8 `const uint8_t XBeePacket::pRXIndicator = 0x90` `[static]`
- 4.14.3.9 `const uint8_t XBeePacket::pRXIndicatorExplicit = 0x91` `[static]`
- 4.14.3.10 `const uint8_t XBeePacket::pTransmitStatus = 0x8B` `[static]`
- 4.14.3.11 `const uint8_t XBeePacket::pTXRequest = 0x10` `[static]`
- 4.14.3.12 `const uint8_t XBeePacket::pTXRequestExplicit = 0x11` `[static]`

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

- `src/QXBee/XBeePacket/XBeePacket.h`

Chapter 5

File Documentation

5.1 src/QXBee/QXBee.h File Reference

Classes

- class [QXBee](#)

The [QXBee](#) class provides bi-directional communication with a XBee device thru serial port.

5.2 src/QXBee/XBeePacket/ATCommand.h File Reference

Classes

- class [ATCommand](#)

5.3 src/QXBee/XBeePacket/ATCommandQueue.h File Reference

Classes

- class [ATCommandQueue](#)

5.4 src/QXBee/XBeePacket/ATCommandRemote.h File Reference

Classes

- class [ATCommandRemote](#)

5.5 src/QXBee/XBeePacket/ATCommandResponse.h File Reference

Classes

- class [ATCommandResponse](#)

5.6 `src/QXBee/XBeePacket/ATCommandResponseRemote.h` File Reference

Classes

- class [ATCommandResponseRemote](#)

5.7 `src/QXBee/XBeePacket/ModemStatus.h` File Reference

Classes

- class [ModemStatus](#)

5.8 `src/QXBee/XBeePacket/NodeIdentificationIndicator.h` File Reference

Classes

- class [NodeIdentificationIndicator](#)

5.9 `src/QXBee/XBeePacket/RXIndicator.h` File Reference

Classes

- class [RXIndicator](#)

5.10 `src/QXBee/XBeePacket/RXIndicatorExplicit.h` File Reference

Classes

- class [RXIndicatorExplicit](#)

5.11 `src/QXBee/XBeePacket/TransmitStatus.h` File Reference

Classes

- class [TransmitStatus](#)

5.12 `src/QXBee/XBeePacket/TXRequest.h` File Reference

Classes

- class [TXRequest](#)

5.13 src/QXBee/XBeePacket/TXRequestExplicit.h File Reference

Classes

- class [TXRequestExplicit](#)

5.14 src/QXBee/XBeePacket/XBeePacket.h File Reference

Classes

- class [XBeePacket](#)

Index

- ~ATCommand
 - ATCommand, 8
- ~ATCommandResponse
 - ATCommandResponse, 12
- ~ModemStatus
 - ModemStatus, 15
- ~NodeIdentificationIndicator
 - NodeIdentificationIndicator, 16
- ~QXBee
 - QXBee, 19
- ~RXIndicator
 - RXIndicator, 20
- ~TXRequest
 - TXRequest, 25
- ~TransmitStatus
 - TransmitStatus, 24
- ~XBeePacket
 - XBeePacket, 29
- ATCommand, 7
 - ~ATCommand, 8
 - ATCommand, 8
 - getATCommand, 8
 - getATParameter, 8
 - getFrameData, 8
 - getFrameID, 8
 - getFrameType, 8
 - setATCommand, 8
 - setATParameter, 8
 - setFrameData, 8
 - setFrameID, 8
- ATCommandQueue, 9
 - getFrameType, 9
- ATCommandRemote, 10
 - ATCommandRemote, 10
 - getCommandOptions, 10
 - getDestinationAddress16, 10
 - getDestinationAddress64, 10
 - getFrameData, 10
 - getFrameType, 10
 - setCommandOptions, 11
 - setDestinationAddress16, 11
 - setDestinationAddress64, 11
 - setFrameData, 11
- ATCommandResponse, 11
 - ~ATCommandResponse, 12
 - ATCommandResponse, 12
 - getATCommand, 12
 - getCommandData, 12
 - getCommandStatus, 12
 - getFrameData, 12
 - getFrameID, 12
 - getFrameType, 12
 - setATCommand, 12
 - setCommandData, 12
 - setCommandStatus, 12
 - setFrameData, 12
 - setFrameID, 12
- ATCommandResponseRemote, 13
 - ATCommandResponseRemote, 13
 - getFrameData, 13
 - getFrameType, 13
 - getSourceAddress16, 14
 - getSourceAddress64, 14
 - setFrameData, 14
 - setSourceAddress16, 14
 - setSourceAddress64, 14
- broadcast
 - QXBee, 19
- dataReceived
 - QXBee, 19
- getATCommand
 - ATCommand, 8
 - ATCommandResponse, 12
- getATParameter
 - ATCommand, 8
- getBroadcastRadius
 - TXRequest, 26
- getClusterID
 - RXIndicatorExplicit, 22
 - TXRequestExplicit, 27
- getCommandData
 - ATCommandResponse, 12
- getCommandOptions
 - ATCommandRemote, 10
- getCommandStatus
 - ATCommandResponse, 12
- getDeliveryStatus
 - TransmitStatus, 24
- getDestinationAddress16
 - TXRequest, 26
 - TransmitStatus, 24
- getDestinationAddress64
 - TXRequest, 26
- getDestinationAddress16
 - ATCommandRemote, 10
- getDestinationAddress64

- ATCommandRemote, 10
- getDestinationEndpoint
 - RXIndicatorExplicit, 22
 - TXRequestExplicit, 27
- getDeviceType
 - NodeIdentificationIndicator, 16
- getDeviceTypeID
 - NodeIdentificationIndicator, 16
- getDiscoveryStatus
 - TransmitStatus, 24
- getFrameData
 - ATCommand, 8
 - ATCommandRemote, 10
 - ATCommandResponse, 12
 - ATCommandResponseRemote, 13
 - ModemStatus, 15
 - NodeIdentificationIndicator, 16
 - RXIndicator, 20
 - RXIndicatorExplicit, 22
 - TXRequest, 26
 - TXRequestExplicit, 27
 - TransmitStatus, 24
 - XBeePacket, 29
- getFrameID
 - ATCommand, 8
 - ATCommandResponse, 12
 - TXRequest, 26
 - TransmitStatus, 24
- getFrameType
 - ATCommand, 8
 - ATCommandQueue, 9
 - ATCommandRemote, 10
 - ATCommandResponse, 12
 - ATCommandResponseRemote, 13
 - ModemStatus, 15
 - NodeIdentificationIndicator, 16
 - RXIndicator, 20
 - RXIndicatorExplicit, 22
 - TXRequest, 26
 - TXRequestExplicit, 27
 - TransmitStatus, 24
 - XBeePacket, 29
- getManufacturerID
 - NodeIdentificationIndicator, 17
- getNISTring
 - NodeIdentificationIndicator, 17
- getParentAddress16
 - NodeIdentificationIndicator, 17
- getProfileID
 - NodeIdentificationIndicator, 17
 - RXIndicatorExplicit, 22
 - TXRequestExplicit, 28
- getRSSI
 - NodeIdentificationIndicator, 17
- getReceiveOptions
 - NodeIdentificationIndicator, 17
 - RXIndicator, 21
- getReceivedData
 - RXIndicator, 20
- getRemoteAddress16
 - NodeIdentificationIndicator, 17
- getRemoteAddress64
 - NodeIdentificationIndicator, 17
- getSourceAddress16
 - ATCommandResponseRemote, 14
 - NodeIdentificationIndicator, 17
 - RXIndicator, 21
- getSourceAddress64
 - ATCommandResponseRemote, 14
 - NodeIdentificationIndicator, 17
 - RXIndicator, 21
- getSourceEndpoint
 - RXIndicatorExplicit, 22
 - TXRequestExplicit, 28
- getSourceEvent
 - NodeIdentificationIndicator, 17
- getStatus
 - ModemStatus, 15
- getTransmitOptions
 - TXRequest, 26
- getTransmitRetryCount
 - TransmitStatus, 24
- getTransmittingData
 - TXRequest, 26
- ModemStatus, 14
 - ~ModemStatus, 15
 - getFrameData, 15
 - getFrameType, 15
 - getStatus, 15
 - ModemStatus, 15
 - setFrameData, 15
 - setStatus, 15
- NodeIdentificationIndicator, 15
 - ~NodeIdentificationIndicator, 16
 - getDeviceType, 16
 - getDeviceTypeID, 16
 - getFrameData, 16
 - getFrameType, 16
 - getManufacturerID, 17
 - getNISTring, 17
 - getParentAddress16, 17
 - getProfileID, 17
 - getRSSI, 17
 - getReceiveOptions, 17
 - getRemoteAddress16, 17
 - getRemoteAddress64, 17
 - getSourceAddress16, 17
 - getSourceAddress64, 17
 - getSourceEvent, 17
 - NodeIdentificationIndicator, 16
 - setDeviceType, 17
 - setDeviceTypeID, 17
 - setFrameData, 17
 - setManufacturerID, 17
 - setNISTring, 17

- setParentAddress16, [17](#)
 - setProfileID, [17](#)
 - setRSSI, [17](#)
 - setReceiveOptions, [17](#)
 - setRemoteAddress16, [17](#)
 - setRemoteAddress64, [17](#)
 - setSourceAddress16, [17](#)
 - setSourceAddress64, [17](#)
 - setSourceEvent, [17](#)
- operator int
 - XBeePacket, [29](#)
- pATCommand
 - XBeePacket, [30](#)
- pATCommandQueue
 - XBeePacket, [30](#)
- pATCommandRemote
 - XBeePacket, [30](#)
- pATCommandResponse
 - XBeePacket, [30](#)
- pATCommandResponseRemote
 - XBeePacket, [30](#)
- pModemStatus
 - XBeePacket, [30](#)
- pNodeIdentificationIndicator
 - XBeePacket, [30](#)
- pRXIndicator
 - XBeePacket, [30](#)
- pRXIndicatorExplicit
 - XBeePacket, [30](#)
- pTXRequest
 - XBeePacket, [30](#)
- pTXRequestExplicit
 - XBeePacket, [30](#)
- pTransmitStatus
 - XBeePacket, [30](#)
- QXBee, [18](#)
 - ~QXBee, [19](#)
 - broadcast, [19](#)
 - dataReceived, [19](#)
 - QXBee, [19](#)
 - send, [19](#)
 - unicast, [19](#)
- RXIndicator, [19](#)
 - ~RXIndicator, [20](#)
 - getFrameData, [20](#)
 - getFrameType, [20](#)
 - getReceiveOptions, [21](#)
 - getReceivedData, [20](#)
 - getSourceAddress16, [21](#)
 - getSourceAddress64, [21](#)
 - RXIndicator, [20](#)
 - setFrameData, [21](#)
 - setReceiveOptions, [21](#)
 - setReceivedData, [21](#)
 - setSourceAddress16, [21](#)
 - setSourceAddress64, [21](#)
 - getClusterID, [22](#)
 - getDestinationEndpoint, [22](#)
 - getFrameData, [22](#)
 - getFrameType, [22](#)
 - getProfileID, [22](#)
 - getSourceEndpoint, [22](#)
 - RXIndicatorExplicit, [22](#)
 - setClusterID, [22](#)
 - setDestinationEndpoint, [22](#)
 - setFrameData, [22](#)
 - setProfileID, [22](#)
 - setSourceEndpoint, [23](#)
- send
 - QXBee, [19](#)
- setATCommand
 - ATCommand, [8](#)
 - ATCommandResponse, [12](#)
- setATParameter
 - ATCommand, [8](#)
- setBroadcastRadius
 - TXRequest, [26](#)
- setClusterID
 - TXRequestExplicit, [28](#)
- setClusterID
 - RXIndicatorExplicit, [22](#)
- setCommandData
 - ATCommandResponse, [12](#)
- setCommandOptions
 - ATCommandRemote, [11](#)
- setCommandStatus
 - ATCommandResponse, [12](#)
- setDeliveryStatus
 - TransmitStatus, [24](#)
- setDestinationAddress16
 - ATCommandRemote, [11](#)
 - TXRequest, [26](#)
 - TransmitStatus, [24](#)
- setDestinationAddress64
 - ATCommandRemote, [11](#)
 - TXRequest, [26](#)
- setDestinationEndpoint
 - RXIndicatorExplicit, [22](#)
 - TXRequestExplicit, [28](#)
- setDeviceType
 - NodeIdentificationIndicator, [17](#)
- setDeviceTypeID
 - NodeIdentificationIndicator, [17](#)
- setDiscoveryStatus
 - TransmitStatus, [24](#)
- setFrameData
 - ATCommand, [8](#)
 - ATCommandRemote, [11](#)
 - ATCommandResponse, [12](#)
 - ATCommandResponseRemote, [14](#)
 - ModemStatus, [15](#)
 - NodeIdentificationIndicator, [17](#)

- RXIndicator, 21
- RXIndicatorExplicit, 22
- TXRequest, 26
- TXRequestExplicit, 28
- TransmitStatus, 24
- XBeePacket, 29
- setFrameID
 - ATCommand, 8
 - ATCommandResponse, 12
 - TXRequest, 26
 - TransmitStatus, 24
- setManufacturerID
 - NodeIdentificationIndicator, 17
- setNISTring
 - NodeIdentificationIndicator, 17
- setParentAddress16
 - NodeIdentificationIndicator, 17
- setProfileID
 - NodeIdentificationIndicator, 17
 - RXIndicatorExplicit, 22
 - TXRequestExplicit, 28
- setRSSI
 - NodeIdentificationIndicator, 17
- setReceiveOptions
 - NodeIdentificationIndicator, 17
 - RXIndicator, 21
- setReceivedData
 - RXIndicator, 21
- setRemoteAddress16
 - NodeIdentificationIndicator, 17
- setRemoteAddress64
 - NodeIdentificationIndicator, 17
- setSourceAddress16
 - ATCommandResponseRemote, 14
 - NodeIdentificationIndicator, 17
 - RXIndicator, 21
- setSourceAddress64
 - ATCommandResponseRemote, 14
 - NodeIdentificationIndicator, 17
 - RXIndicator, 21
- setSourceEndpoint
 - RXIndicatorExplicit, 23
 - TXRequestExplicit, 28
- setSourceEvent
 - NodeIdentificationIndicator, 17
- setStatus
 - ModemStatus, 15
- setTransmitOptions
 - TXRequest, 26
- setTransmitRetryCount
 - TransmitStatus, 24
- setTransmittingData
 - TXRequest, 26
- src/QXBee/QXBee.h, 31
- src/QXBee/XBeePacket/ATCommand.h, 31
- src/QXBee/XBeePacket/ATCommandQueue.h, 31
- src/QXBee/XBeePacket/ATCommandRemote.h, 31
- src/QXBee/XBeePacket/ATCommandResponse↔
 - Remote.h, 32
- src/QXBee/XBeePacket/ModemStatus.h, 32
- src/QXBee/XBeePacket/NodeIdentificationIndicator.h, 32
- src/QXBee/XBeePacket/RXIndicator.h, 32
- src/QXBee/XBeePacket/RXIndicatorExplicit.h, 32
- src/QXBee/XBeePacket/TXRequest.h, 32
- src/QXBee/XBeePacket/TXRequestExplicit.h, 33
- src/QXBee/XBeePacket/TransmitStatus.h, 32
- src/QXBee/XBeePacket/XBeePacket.h, 33
- TXRequest, 25
 - ~TXRequest, 25
 - getBroadcastRadius, 26
 - getDestinationAddress16, 26
 - getDestinationAddress64, 26
 - getFrameData, 26
 - getFrameID, 26
 - getFrameType, 26
 - getTransmitOptions, 26
 - getTransmittingData, 26
 - setBroadcastRadius, 26
 - setDestinationAddress16, 26
 - setDestinationAddress64, 26
 - setFrameData, 26
 - setFrameID, 26
 - setTransmitOptions, 26
 - setTransmittingData, 26
 - TXRequest, 25
- TXRequestExplicit, 27
 - getClusterID, 27
 - getDestinationEndpoint, 27
 - getFrameData, 27
 - getFrameType, 27
 - getProfileID, 28
 - getSourceEndpoint, 28
 - setClusterID, 28
 - setDestinationEndpoint, 28
 - setFrameData, 28
 - setProfileID, 28
 - setSourceEndpoint, 28
 - TXRequestExplicit, 27
- TransmitStatus, 23
 - ~TransmitStatus, 24
 - getDeliveryStatus, 24
 - getDestinationAddress16, 24
 - getDiscoveryStatus, 24
 - getFrameData, 24
 - getFrameID, 24
 - getFrameType, 24
 - getTransmitRetryCount, 24
 - setDeliveryStatus, 24
 - setDestinationAddress16, 24
 - setDiscoveryStatus, 24
 - setFrameData, 24
 - setFrameID, 24
 - setTransmitRetryCount, 24
 - TransmitStatus, 24

unicast

QXBee, [19](#)

XBeePacket, [28](#)

~XBeePacket, [29](#)

getFrameData, [29](#)

getFrameType, [29](#)

operator int, [29](#)

pATCommand, [30](#)

pATCommandQueue, [30](#)

pATCommandRemote, [30](#)

pATCommandResponse, [30](#)

pATCommandResponseRemote, [30](#)

pModemStatus, [30](#)

pNodeIdentificationIndicator, [30](#)

pRXIndicator, [30](#)

pRXIndicatorExplicit, [30](#)

pTXRequest, [30](#)

pTXRequestExplicit, [30](#)

pTransmitStatus, [30](#)

setFrameData, [29](#)