

UHFRManager

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1.1 getInstance()

Function	UHFRManager getInstance()
Description	Get UHF instance, and open the hardware module
Parameter	Null
Return	UHFRManager instance

1.2 getHardware()

Function	String getHardware()
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Description	Get hardware version
Parameters	Null
Return	Hardware version string Null failure

1.3 asyncStartReading()

Function	READER_ERR asyncStartReading()
Description	Start reading of multiple mode
Parameters	Null
Return	READER_ERR Success: Reader.READER_ERR.MT_OK_ERR Failure

1.4 asyncStopReading()

Function	READER_ERR asyncStopReading()
Description	Stop reading of multiple mode, use together with asyncStartReading()
Parameters	Null
Return	READER_ERR Success: Reader.READER_ERR.MT_OK_ERR Failure

1.5 setInventoryFilter()

Function	boolean setInventoryFilter()
Description	Set inventory filter
Parameters	byte[] fdata, data to be filtered int fbank, bank of data to be filtered 1 :EPC, 2: TID , 3: USER int fstartaddr, starting address, unit of word boolean matching true: inventory the matched tag; false: inventory the non-matching tag
Return	True for success False for failure

Note: 2 bytes == 1 word

1.6 setCancelInventoryFilter()

Function	boolean setCancelInventoryFilter()
Description	Cancel inventory filter, use together with setInventoryFilter()
Parameters	Null
Return	True for success; False for failure

1.7 tagInventoryRealTime()

Function	public List<TAGINFO> tagInventoryRealTime()
Description	Inventory in real-time and show the tag list, use after asyncStartReading()
Parameters	Null
Return	List<TAGINFO> Tag list Null

1.8 stopTagInventory()

Function	boolean stopTagInventory()
Description	Stop inventory
Parameters	Null
Return	True for success False for failure

1.9 tagInventoryByTimer()

Function	List<TAGINFO> tagInventoryByTimer(short readtime)
Description	Inventory by timer
Parameters	Short readtime, time of single inventory with unit of ms
Return	List<TAGINFO> Tag list Null: reading failure

1.10 getTagData()

Function	READER_ERR getTagData(int mbank, int startaddr, int len, byte[] rdata, byte[] password, short timeout)
Description	Get tag data
Parameters	int mbank, bank to be read, 0:RESERVED, 1:EPC, 2:TID, 3:USER int startaddr, starting address of the tag with unit of word int len, length of the tag byte[] rdata, read data, same length as len byte[] password, access password, 4 bytes short timeout, timeout value with unit of ms
Return	READER_ERR Success: Reader.READER_ERR.MT_OK_ERR Failure

1.11 getTagDataByFilter()

Function	byte[] getTagDataByFilter(int mbank, int startaddr, int len, byte[] password, short timeout, byte[] fdata, int fbank, int fstartaddr, boolean matching)
Description	Read specified tag by filter
Parameters	int mbank, memory bank, 0:RESERVED, 1:EPC, 2:TID, 3:USER int startaddr, starting address with unit of word int len, length of the data to be read byte[] password, access password, 4 bytes short timeout, timeout value with unit of ms byte[] fdata, filtered data

	int fbank, filtered bank, 1 :EPC,2: TID ,3: USER int fstartaddr, starting address with unit of word boolean matching or not, true: read the matching tag; false: read the non-matching tag
Return	Byte[] Success Null Failure

1.12 writeTagData()

Function	READER_ERR writeTagData(char mbank, int startaddress, byte[] data, int datalen, byte[] accesspasswd, short timeout)
Description	Write data
Parameters	int mbank, memory bank to be written, 0:RESERVED, 1:EPC, 2:TID, 3:USER int startaddress, starting address with unit of word byte[] data, data to be written int datalen, length of the data with unit of word byte[] password, access password, 4 bytes short timeout, timeout value with unit of ms
Return	READER_ERR Success: Reader.READER_ERR.MT_OK_ERR Failure: error information

1.13 writeTagDataByFilter()

Function	READER_ERR writeTagDataByFilter(char mbank, int startaddress, byte[] data, int datalen, byte[] accesspasswd, short timeout, byte[] fdata, int fbank, int fstartaddr, boolean matching)
Description	Write data to the specified tag by filter
Parameters	int mbank, memory bank of data to be written, 0:RESERVED, 1:EPC, 2:TID, 3:USER int startaddress, starting address with unit of word byte[] data, data to be written int datalen, length of the data to be written with unit of word byte[] password, access password, 4 bytes short timeout, timeout value with unit of ms byte[] fdata, filtered data int fbank, filtered bank 1 :EPC,2: TID ,3: USER int fstartaddr, starting address with unit of word boolean matching or not, true: write data to the matching tag; false: write data to the non-matching tag
Return	READER_ERR Success: Reader.READER_ERR.MT_OK_ERR Failure: error information

1.14 writeTagEPC()

Function	READER_ERR writeTagEPC(byte[] data, byte[] accesspwd, short timeout)
Description	Write EPC
Parameters	byte[] data, EPC data to be written byte[] accesspwd, access password, 4 bytes short timeout, timeout value with unit of ms

Return	<p>READER_ERR</p> <p>Success: Reader.READER_ERR.MT_OK_ERR</p> <p>Failure: error list</p>
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1.15 writeTagEPCByFilter()

Function	READER_ERR writeTagEPCByFilter(byte[] data, byte[] accesspwd, short timeout, byte[] fdata, int fbank, int fstartaddr, boolean matching)
Description	Write EPC of specified tag by filter
Parameters	<p>byte[] data, EPC data to be written</p> <p>byte[] accesspwd, access password, 4 bytes</p> <p>short timeout, timeout value with unit of ms</p> <p>byte[] fdata, filtered data</p> <p>int fbank, filtered bank 1 :EPC,2: TID ,3: USER</p> <p>int fstartaddr, starting address with unit of word</p> <p>boolean matching or not, true: write data to the matching tag; false: write data to the non-matching tag</p>
Return	<p>READER_ERR</p> <p>Success: Reader.READER_ERR.MT_OK_ERR</p> <p>Failure: error information</p>

1.16 lockTag()

Function	READER_ERR lockTag(Lock_Obj lockobject, Lock_Type locktype, byte[] accesspasswd, short timeout)
Description	Lock tag
Parameters	<p>Lock_Obj lockobject, lock object including access password, kill password, EPC bank and USER bank, please refer to the demo source codes</p> <p>Lock_Type locktype, lock type, including lock/unlock, permanent lock, please refer to the demo source codes</p> <p>byte[] accesspasswd, access password, 4 bytes</p> <p>short timeout, timeout value with unit of ms</p>
Return	<p>READER_ERR</p> <p>Success: Reader.READER_ERR.MT_OK_ERR</p> <p>Failure: error information</p>

1.17 lockTagByFilter()

Function	READER_ERR lockTagByFilter(Lock_Obj lockobject, Lock_Type locktype, byte[] accesspasswd, short timeout, byte[] fdata, int fbank, int fstartaddr, boolean matching)
Description	Lock tag by filter
Parameters	<p>Lock_Obj lockobject, lock object including access password, kill password, EPC bank and USER bank, please refer to the demo source codes</p> <p>Lock_Type locktype, lock type, including lock/unlock, permanent lock, please refer to the demo source codes</p> <p>byte[] accesspasswd, access password, 4 bytes</p> <p>short timeout, timeout value with unit of ms</p> <p>byte[] fdata, filtered data</p> <p>int fbank, filtered bank, 1 :EPC,2: TID ,3: USER</p> <p>int fstartaddr, starting address with unit of word</p> <p>boolean matching or not, true: lock the tag matching the filter; false: lock</p>

	the tag non-matching the filter
Return	READER_ERR Success: Reader.READER_ERR.MT_OK_ERR Failure: error information

1.18 killTag()

Function	READER_ERR killTag(byte[] killpasswd, short timeout)
Description	Kill the tag, please be aware about the operating since the tag would not work after being killed Tag cannot be killed with password of 0
Parameters	byte[] killpassword, kill password short timeout, timeout value with unit of ms
Return	READER_ERR Success: Reader.READER_ERR.MT_OK_ERR Failure;

1.19 killTagByFilter()

Function	READER_ERR killTagByFilter(byte[] killpasswd, short timeout, byte[] fdata, int fbank, int fstartaddr, boolean matching)
Description	Kill the specified tag by filter
Parameters	byte[] killpasswd, kill password short timeout, timeout value with unit of ms byte[] fdata, data to be filtered int fbank, bank of data to be filtered 1 :EPC,2: TID ,3: USER int fstartaddr, starting address with unit of word boolean matching or not; true: kill the tag that matches the filter data, ,false: kill the tag that does not match the filter
Return	READER_ERR Success: Reader.READER_ERR.MT_OK_ERR Failure:

1.20 setRegion()

Function	READER_ERR setRegion(Region_Conf region)
Description	Set the frequency region
Parameters	Region_Conf region, including CHN, USA, Korea, EU. Failure indicates the frequency is not supported
Return	READER_ERR Success: Reader.READER_ERR.MT_OK_ERR Failure

1.21 getRegion()

Function	Region_Conf getRegion()
Description	Get the current frequency region
Parameters	Null
Return	Region_Conf, please refer to the demo source codes

1.22 getFrequencyPoints()

Function	int[] getFrequencyPoints()
Description	Get the frequency points
Parameters	Null
Return	Int[] Frequency points with unit of kHz

1.23 setFrequencyPoints()

Function	READER_ERR setFrequencyPoints(int[] frequencyPoints)
Description	Set frequency points, frequency points can be obtained by getFrequencyPoints()
Parameters	int[] frequencyPoints with unit of kHz
Return	READER_ERR Success: Reader.READER_ERR.MT_OK_ERR Failure

1.24 setPower()

Function	READER_ERR setPower(int readPower, int writePower)
Description	Set the power value
Parameters	int readPower, range: 5~33 int writePower, range: 5~33
Return	READER_ERR Success: Reader.READER_ERR.MT_OK_ERR Failure:

1.25 getPower()

Function	int[] getPower()
Description	Get the power
Parameters	Null
Return	int[] success, int[0] as reading power, int[1] as writing power Null failure

1.26 setFastMode()

Function	READER_ERR setFastMode()
Description	Set fast/multiple reading mode with the max power
Parameters	Null
Return	List<EPCCDataModel>: EPC data list Null

1.27 getTemperature()

Function	int getTemperature()
Description	Get the module chip temperature
Parameters	Null
Return	int >0 as success, <0 as failure

1.28 close()

Function	Boolean close()
Description	Close the hardware connection

Parameters	Null
Return	True for success; Fail for failure

For more details, please refer to the demo source codes.