

SerialPort.jar API SPECIFICATION

B2-E27

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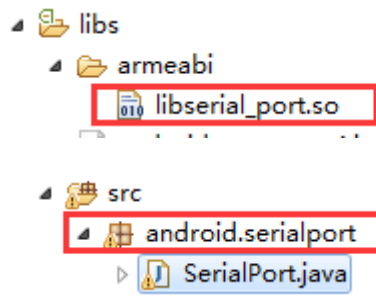
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SerialPort.java Specification

Instructions: the SerialPort.java has four main functions: Open, Read, Write, Close. Through **jni** calls **libserial_port.so** to achieve the serial port to read and write operations. You need just copy *.so file and SerialPort.java to your own project to operation serial port.

Note: You can not change the package name of SerialPort.java, it must be **android.serialport**. Once changed, it need to recompile.



API Specification

1. public void OpenSerial()

FUNC PROTOTYPE	public void OpenSerial(String dev, int baudrate) throws SecurityException, IOException		
FUNC DESCRIPTION	Open serialport device dev by baudrate, the default serial port parameters is Data bits 8, there is no check bit, Stop bit 1. Open succeeded, fd is the describe of the corresponding documents. Open failed, fd is negative.		
PARAM DESCRIPTION	dev	String	Describe the path of serial port device need be open.
	baudrate	int	Specify the baud rate of serial port.
RETURN VALUE	none		

2. public void OpenSerialWithStopbit()

FUNC PROTOTYPE	public void OpenSerialWithStopbit(String dev, int baudrate , int stopbit) throws SecurityException, IOException		
FUNC DESCRIPTION	Open serial port device dev by baudrate and stopbit, the default serial port parameters is Data bits 8, there is no check bit. Open succeeded, fd is the describe of the corresponding file. Open failed, fd is negative.		
PARAM DESCRIPTION	dev	String	Describe the path of serial port device need be open
	baudrate	int	Specify the baud rate of serial port
	stopbit	int	Set stop bit, only can be 1 or 2.
RETURN VALUE	none		

3. public int WriteSerialString()

FUNC PROTOTYPE	public int WriteSerialString(int fd, String str, int len)		
FUNC DESCRIPTION	Write str length of len to the serial port fd, and returns the number of write successful.		
PARAM DESCRIPTION	fd	int	The file descriptor returned by using open to open device.
	str	String	The contents you want to write to serial port.
	len	int	Specify the length of the written string.
RETURN VALUE	int	The number of string written successful.	

4. public int WriteSerialByte()

FUNC PROTOTYPE	public int WriteSerialByte(int fd, byte[] data)		
FUNC DESCRIPTION	Write byte[] to the fd, returns the numbers of successful writing data.		
PARAM DESCRIPTION	fd	int	The file descriptor returned by using open to open device
	data	byte[]	The content you want to write to th serial port.
RETURN VALUE	int	The number of string written successful	

5. public byte[] ReadSerial()

FUNC PROTOTYPE	public byte[] ReadSerial(int fd, int len) throws UnsupportedOperationException		
FUNC DESCRIPTION	Read byte[] length of len from the serial port fd. Pay attention to the actual length of byte[], it may be less than len, or null represent there is none to read		
PARAM DESCRIPTION	fd	int	The file descriptor returned by using open to open device.
	len	int	maximum length need to read.
RETURN VALUE	byte[]	return byte[] read successful , it's length may be less than len. While null represent no data to read.	

6. public String ReadSerialSrting()

FUNC PROTOTYPE	public String ReadSerialSrting(int fd, int len) throws UnsupportedOperationException		
FUNC DESCRIPTION	Read string length of len from the serial port fd. Pay attention to the actual length of string, it may be less than len, or null represent there is none to read.		
PARAM DESCRIPTION	fd	int	The file descriptor returned by using open to open device.
	len	int	maximum length need to read.
RETURN VALUE	String		

7. public void CloseSerial()

FUNC PROTOTYPE	public void CloseSerial(int fd)
FUNC DESCRIPTION	Close the serial port fd.
PARAM DESCRIPTION	none
RETURN VALUE	none

8. public int getFd()

FUNC PROTOTYPE	public int getFd()
FUNC DESCRIPTION	Return the file descriptor of operations.
PARAM DESCRIPTION	none
RETURN VALUE	int