Bluetooth V2.1 SPP RS-232 Serial Adapter

Model: S2B2232FIV2 (Internal antenna, Female DB9)

Model: S2B2232FEV2 (External antenna, Female DB9)

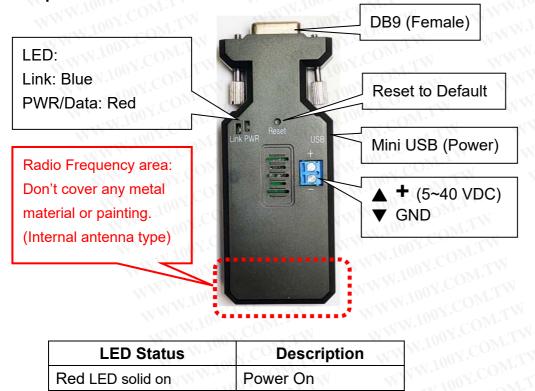
勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

1. Package content:



2. Profile:

2.1 Top view:



LED Status	Description
Red LED solid on	Power On
Blue LED solid on	Bluetooth Link
Blue LED flash	Bluetooth not Link
Both LED off	DFU mode

2.2 Rear Side:



3. Power supply:

- 3.1 Voltage: 5~40 VDC, Don't exceed the limit.
- 3.2 There're 3 ways to power the adapter: Mini USB, 2P Terminal Block (Blue) and pin9 of DB9, please choose one. **Don't power the adapter by more than one source.**
- 3.3 The mini USB to type A cable is inside the standard package.

4. Guide:

4.1 Default value:

Baud rate: 9,600 bps

Data bit: 8Parity: noneStop bit: 1

Flow control: none

Device Name: Serial Adapter

 Pin: (None), The value will be authenticated by each other for the S2B2232FIV2 or S2B2232FEV2 only.

- Mode: Default is "Slave", The adapter can be configured the "Master" by the command "role=m".
- 4.2 If the PC not built in the Bluetooth, please source the Bluetooth USB dongle or use the same adapter set as the "master". The built in Bluetooth of NB supports class 2 only, 10 meters. If you need more than 10 meters range, you will connect two adapters.
- 4.3 Slide Switch of "DTE/DCE"
 - Use the slide switch to swap the "TX/RX" and "CTS/RTS". By slide the switch, you can set the adaptor either as a DTE (towards antenna connector) or a DCE (towards DB9 connector). In most situation, switch to "DTE" if connect with the remote device.
- 4.4 Slave mode (default): Start the searching from the PC or smartphone and connect it. All OS is available except the iOS.
- 4.5 Reset Button: Pressed with a clip or pin into the hole on the top cover. Restore the factory settings (after over three seconds' press).

5. Setup Command set (any capital or lowercase combination is available)

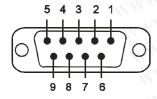
Command ?	Value	Description List all the command set
	1007.00	List all the command set
ADDRESS=?	M. 100 X.C.	This command is used to display the Bluetooth address of the local adaptor. Ex. 3C:61:A8:60:BA:72
AT	WW.100 P	Check the connection status between control terminal and the RS-232
	N. 1. 100 1.	adapter. Response: "OK" when the connection is ok. Response:
M.TW	W 100	"ERROR" when the connection is not ok.
AUTO=	WW.100	This command is used to enable/disable auto-connection feature. It is
	WW 10	available only when the adaptor is in the master role. All the slaves wi
	WWW	the head of the mac. 0012, 0019 or 3C61 will be connected w/o
OX COM	MAM	authenticating the pin value. Refer: page 6 section 7.
	A MAN	The Master role adapter will connect the latest paired Bluetooth device
COM.		automatically.
(Default)	N	The user will connect the Bluetooth device manually.
1.100 COM.	?	Inquire the current setting.
BAUD=		This command is used to specify the baud rate of COM port.
W.1001.	3	The command will need 200 ms delay.
N.100 Y. CO.	1200	1200 bps
W.100Y.CO	2400	2400 bps
NN TON LOOT CO	4800	4800 bps
(Default)	9600	9600 bps
WWW.	19200	19200 bps
WWW.I	38400	38400 bps
MMM.10	57600	57600 bps
WWW.Ino	115200	115200 bps
WW.10	230400	230400 bps
WWW.1	? COM.	Inquire the current baud rate.
BIT=	100 r. COM.	Data bit
W.	5	5 data bits
N	6	6 data bits
MM	7,00¥.	7 data bits
(Default)	8	8 data bits
V	? 1001.0	Inquire the data bit setting.
CONNECT=	NIN TILONY.	This command is used to establish a connection manually. It is availa
	YOUN	only when the adaptor is in the master role.
	1~8	Connect the adaptor to a Bluetooth device in the neighborhood found
_	MMM.To	through "SEARCH=?"
	xxxxxxxxxx	Connect the remote adapter by type the MAC address directly withou searching.
	?	Display the MAC address of the latest paired device.
DEFAULT=Y	TIMN.	This command is used to restore the default settings and originate a
DEI NOET = T	TWV.	warm start.
DFU=	Υ	Switch to the firmware upgrade procedure, please disconnect the CO
		port when the adapter reply "OK". Send the firmware file by the
	2/1	"Accessport" software, please check the link on page 6 section 9.3.
ECHO=	W	This command is used to specify whether the adaptor echoes

·	ser manual V2.3	characters received from the UART back to the DTE/DCE.
	N	Command characters received from the UART are not echoed back the DTE/DCE.
(Default)	Y.100Y.CO	Command characters received from the UART are echoed back to the DTE/DCE.
WIN WIN	? 1007.0	Inquire the current setting.
FLOW=	MMM.100X	This command enable or disable flow control signals (CTS/RTS) of the UART port. Note, the setting is not affected by DEFAULT. The command will need 1 second delay.
(Default)	N. W. I	Disable flow control.
COM	Y	Enable flow control.
COM.	?	Inquire the current setting
KEY=	WWW	The key value will be created by the smart phone or Win10 devices when pairing with the slave adapter. Please type the same 6 number shown on the smart phone or Win10 devices within 15 seconds.
(Default)	N N	WI 100Y. COMITY WWW. TONITY
100Y.CO.M.T	Y	TOOY. COMITY WY 100Y. CMITY
M. TOOX.COM	?	WY 100Y. COLLTN WW TOOY. COLLTN
MAC=	LTW T	The mac. Address will be customized by the user. The master will connect the 2 nd slave with the same mac. address if the 1 st slave damaged.
171W.100 1 CC	xxxxxxxxxx	The head of the address 0012, 0018, 0019 is available only.
M. 1001.	?	WW.100 COM. TW. WWW.100 COM.
NAME=	COM.TW COM.TW COM.TW	This command is used to specify a name for the adaptor. Max. 32 byte You can specify a friendly name using 0 to 9, A to Z, a to z, space an –, which are all valid characters. Note that "first space or -, last space – isn't permitted". The default name is "Serial Adaptor".
(Default)	Serial Adapter	Default device name
WWW.	XXXX	"xxxx" is a character string with the length from 5 to 32.
WW	R COM	Restore the default settings name="Serial Adapter".
V	?	Inquire the name of the local adaptor.
ONE=	MAN 100 X. MAN 100 X.CO MAN 100 X.CO	The master will link with one paired or any nearby slave automaticall All the slaves with the same pin code will be connected. Once connected, the master will not change the paired slave until reset to default from the slave. The command is available under the comman "auto=y". Refer: page 6 section 7.
(Default)	N	The master will link with any nearby slave automatically.
	Y WW.10	The master will link with the paired slave which is linked by the master before automatically.
	?	Inquire the current setting
PARITY=	TINW.	This command is used to specify parity bit setting of COM port.
(Default)	N	None parity bit
	0	Odd parity
	E	Even parity
	?	WITH WALLEY
PIN=	W	This command is used to specify a PIN. The default PIN is (None) ar

·	user manual V2.3	the length is not smaller than 4. The master will connect the slave first and check the pin value sent from the slave. The command is available for the S2B2232FE(I)V2 only. The master will connect the slave if the pin value is the same between both.
(Default)	(None)	The default is not authenticated by default.
	xxxx	"xxxx" is a 4~32 digit string or English character (no matter the capital or lower case)
DW.	?	Inquire the current PIN.
PROMPT=	MMM.TOO	The command is used to decide whether result messages are prompted when Setup commands are executed.
(Default)	Y TWW.TO	Prompt result messages.
COM	N N	Not prompt any result messages.
DY. COM. TW	?	Inquire the current setting.
ROLE= N.TV	A MAN	This command is used to specify whether the adaptor is in the master or slave role. If the device role is changed, the adaptor will reboot and all paired addresses will be cleared. The command is available when the adapter is in DIP=N status. The command will need 1 second delay.
N. T. COM	M	Set the adaptor to the master role. Refer: page 6 section 7.
(Default)	S	Set the adaptor to the slave role.
MM.Too V.CON	?	Inquire the current role of the adaptor.
SEARCH=?	CONTA CONTA CONTA CONTA	This command is used to search for any Bluetooth device in the neighborhood within one minute. If any device is found, its name and its 12-digit-address will be listed. The search ends with a message "Inquiry ends. xx device(s) found." This command is available only when the adaptor is in the master role by manual.
STATUS=	Y COMITY	Inquire all the current setting of the adapter.
WWW	?	Display the current setting of the adapter
STOP=	OV.COM.TY	This command is used to specify one or two stop bits of COM port. The command will need 200ms delay.
(Default)	J.Y.CON	One stop bit.
WWW	1.5	One point five bit
WIE	2 0	Two stop bits.
T T T	? CO	Inquire the current setting.
VERSION=?	M.100 C.	This command is used to inquiry the firmware version.

6. RS232 Interface

6.1 Pin-out: Female type



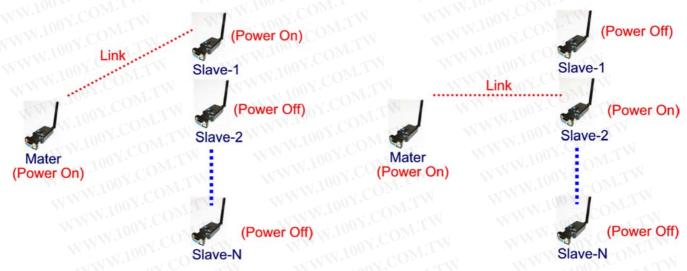
7: CTS 2: TX 3: RX 8: RTS 5: GND 9: VCC

6.2 Signals:

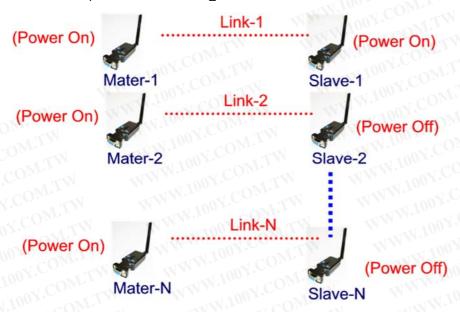
Pin	Signal	DTE Direction	DCE Direction	Description
1	N/A	MM	100Y.COM.TY	
		MM	W.100 Y.	

2	TxD	Input	Output	Received data
3	RxD	Output	Input WWW.	Transmitted data
4	N/A	TOOY.CONL.	MAN	T100Y.CO.
5	GND	TI 100Y.COM.T	N WW	Ground
6	N/A	M. 100 Y. CO.	IM MA	TW. 100Y. COM. TW
71	CTS	Output	Input	Request to send (Default)
8	RTS	Input	Output	Clear to send
9	VCC	WW.100X.C	M.TW	Power Input (5~40 VDC)

- 7. Master mode applications: Set one adapter as the master role by the command "role=m". The "auto=y" and "one=y" command is available under the role=m. The "one=y" command is available under the "auto=y". The pin code must be the same for the paired master and slave.
- 7.1 "AUTO=Y": Auto link any slave with the start mac. Address "0012" or "0019". The "0018" is not available. The master will re-link other slaves when the master or slave restart. The "auto=y" command is available under the "role=m".



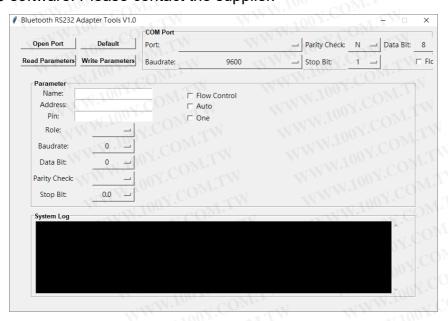
7.2 "ONE=Y": The master will link with the first link slave after restart. It will auto link any slave with the start mac. Address "0012" or "0019". The "0018" is not available. The master will link with the new slave when reset to default value. The "one=y" command is available under the "role=m" or "auto=y".



7.3 Bridge: Extend the transmission range.

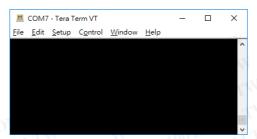


- 9. Configuration and test:
- 9.1 PC software: Please contact the supplier.



9.2 3rd party Terminal: Download the "Teraterm" software to set the AT command or test the data transmission. ASCII characters only.

Download link: https://ttssh2.osdn.jp/index.html.en

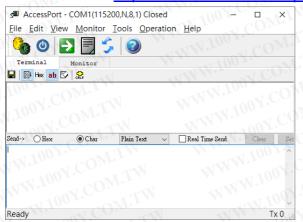


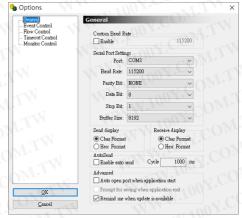


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9.3 3rd party Terminal: Download the "Accessport" software to set the AT command or test the data transmission. ASCII or Hex characters is available.

Download link: http://www.sudt.com/en/ap/





9.4 Smartphone:









Device List

Terminal

Configuration iOS:

Serial Port

9.4.1 APP Download: Android:



