

TBS 6522 Multi-standard Dual Tuner PIC-e card User Manual

Dear Customers,

Thank you so much for choosing this product.

TBS6522 is a Dual PCI Express TV tuner card that supports multiple digital TV standards including ISDB-T/DVB-T2/C2/S2X/S2/T/C/S and enables you to watch TV channel from one transponder/satellite while recording another channel from other transponder/ satellite at the same time.

In order to use this item correctly, please read this manual carefully at the beginning.

1 . Package Contents

□ TBS 6522 Multi-standard Dual Tuner PIC-e card	1 pcs
DC line	1 pcs
F-IEC Adapter	2 pcs
X If anything is missing, please contact your dealer.	

% If additional information is attached on a separate paper, please be sure to reference.

2. Hardware Installation

2.1 Install Tuner Card

Power off the computer, remove computer cover and take out cover panel of PCIe slot in which you want to put the card. Insert the card in **PCIe slot** and fix card bracket with screw. Make sure the card fit in PCIe slot tightly. Then put back computer cover.



ATTENTION:

- When turn off the computer, please do not touch the PC internal components especially the CPU and VGA chip, which has a high temperature with a risk of burns.
- Please be sure to see the manual of PC and peripheral equipment.



2.2 Connect TV Signal to the TV Tuner on your computer

Please make sure you properly connect the TV signal to the TV tuner on computer in case of the damage to antenna device. Following is a table for your reference:



2.3 Check the device

Open "Device Manager" to check whether TBS6522 is recognized. If the device is recognized,

you can see an unknown device under "Other device", double click to check its id.

🚔 Device Manager	
File Action View Help	
 tbs-PC Computer Disk drives Display adapters Display adapters Extract ATAPI controllers Keyboards Mice and other pointing devices Montors Montors Montors Mother devices Multimedia Controller Ports (COM & LPT) Processors Storage controllers System devices Wiresal Serial Bus controllers 	Multimedia Controller Properties General Driver Details Resources Image: Controller Property Hardware Ids Value PCIVEN_544D&DEV_6178&SUBSYS_00026522&REV_00 PCIVEN_544D&DEV_6178&SUBSYS_00026522 PCIVEN_544D&DEV_6178&SUC_04800 PCIVEN_544D&DEV_6178&SUC_04800

3. Software Installation:

Before you begin, make sure your computer qualify the system requirements. 3.1 Install driver of TBS6522

1) Download the software of TBS6522 from website:

http://www.tbsiptv.com/index.php?route=product/download

2) Uncompress the file "TBS6522 Windows Driver":



퉬 tbs-6522_x64	2016/6/15 星期	文件夹	
퉬 tbs-6522_x86	2016/6/15 星期	文件夹	
🛃 TBS_6522_dvb_driver_setup	2016/6/15 星期	应用程序	753 KB

3) Click"TBS_6522_dvb_driver_setup", and then a new window will pop up:

🔂 Setup - TBS 6522 Dual Tuner driver for windows		
	Welcome to the TBS 6522 Dual Tuner driver for windows Setup Wizard	
	This will install TBS 6522 Dual Tuner driver 1.0.0.2 for windows on your computer.	
	It is recommended that you close all other applications before continuing.	
	Click Next to continue, or Cancel to exit Setup.	
Next > Cancel		

4) Click "Next" (Install" (Finish" to complete installation





🚯 Setup - TBS 6522 Dual Tu	uner driver for windows		
	Completing the TBS 6522 Dual Tuner driver for windows Setup Wizard		
	Setup has finished installing TBS 6 windows on your computer.	522 Dual Tuner driver for	
	Click Finish to exit Setup.		
	(Finish	

5) To verify if driver was correctly installed, choose "My Computer", right click and choose "System Properties" to pop up "System Properties" windows, click "Hardware" \rightarrow "Device Manager". Then click "+"in front of "Sound, video and game controllers", if you can see "TBS6522 Dual BDA tuners" that means you do have installed driver correctly.



3.2 Install Change Mode Tool

The default mode of TBS6522 is DVB-S/S2. You could use below tool to set other mode you want.

1) Download TBS6522 Change Mode tool from the website:

http://www.tbsiptv.com/index.php?route=product/download&path=3

🗃 TBS6522 Change	Mode Tool			×	
-Current Mode					info
Tuner 1 :	DVB-S/S2	_			
Tuner 0 :	DVB-S/S2	_	Read		

2) Open the Change Mode Tool ____ select mode____ click "write"

info@tbsiptv.com



3) Wait about 8 seconds to get the new mode you want.

😻 TBS6522 Chang	ge Mode Tool	_		\times
Current Mode				
Tuner 1:	DVB-T/T2			
Tuner 0 :	DVB-S/S2		Read	
Setting Mode				
Tuner 1 :	DVB-T/T2	\mathbf{D}		
Tuner 0 :	DVB-S/S2	• 🤇	Write	\supset

4) Remember to connect the corresponding antenna after you set a new mode.

3.3 Install the player software

To enjoy satellite TV on PC or record video, you still need to install player software and right set the search parameters.

TBS6522 is compatible with a lot of software like TBSViewer, DVBDream, ProgDVB etc. Below is the website to download player software:

http://www.tbsiptv.com/index.php?route=product/download&path=6

For detailed installation instructions, see *Software Installation Instructions*.

4 . Product Specification

ISDB-T	6,7 and 8 MHz bandwidth	
DIGIAL TV TUNER FOR PC & B	EST IPTV SOLUTION	info@tbsiptv.com



	Partial reception supported		
	Carrier recovery:±600 kHz		
	Timing recovery:±200 ppm		
DVB-T2 and T2-Lite	Bandwidth: 1.7, 5, 6, 7 or 8 MHz		
	DVB-T2 versus DVB-T automatic detection		
	Carrier recovery: ±600 kHz		
	Timing recovery: ±200 ppm		
DVB-T	Bandwidth: 6, 7, 8 MHz. ACI filtering for 7 MHz channels enables use of a fixed 8 MHz IF filter		
	Carrier recovery: ±600 kHz		
	Timing recovery: ±200 ppm		
	Supports all C.R.; G.I.;LP and HP streams		
	Advanced terrestrial channel equalizer		
DVB-C2	Notch management		
	Timing recovery:±200 ppm		
	Advanced cable channel equalizer		
DVB-C and ITU-T J.83 Annex B	DFE equalizer specific for cable network		
	Carrier recovery: ±11% of Symbol rate		
	Timing recovery: ±1000 ppm		
DVB-S/S2/S2X	Enhanced immunity to co-channel interferers		
	Programmable carrier recovery range		
	Timing recovery: ±1000 ppm		
Power Consumption	Input/ Power: 12V/6~18W		
	temperature 0°~ 60°		
	Other Information:		
	Windows XP / Vista/ 7/8/10, Linux		
	Available PCI Express x1, x4, x8 or x16 slot		
System Requirements	Digital TV signal (ISDB-T/DVB-T2/C2/S2X/S2/T/C/S)		
	TV tuner card size 130mm*92mm		
2.	Net weight 115g		
Dimension:	Gift Box Size 200*130*30mm		
	Weight 210g		

5 . Linux driver(ubuntu 16.04):

5.1 Linux driver install:

bob@bob-All-Series:~\$ cd /home/bob/Documents/

bob@bob-All-Series:~/Documents\$ mkdir tbsdriver

git clone https://github.com/tbsdtv/media_build.git

git clone --depth=1 https://github.com/tbsdtv/linux_media.git -b latest ./media

cd media_build

make dir DIR=../media

make distclean

make

make install

reboot



5.2 After installed driver, run the command "dmesg | grep frontend" to check whether your device is loaded successfully, you will see:

bob@bob-All-Series: ~	tt En ◀)) 17:11 👯
bobgbob-All-Series:~\$ dmesg grep frontend [2,915283] TBSECP3 driver 0000:02:00.0: DVB: registering adapter 0 frontend 0 (Silicon Labs Si2183) [2,91524] TBSECP3 driver 0000:02:00.0: DVB: registering adapter 0 frontend 1 (Silicon Labs Si2183) [3.039660] TBSECP3 driver 0000:02:00.0: DVB: registering adapter 1 frontend 0 (Silicon Labs Si2183) [3.039721] TBSECP3 driver 0000:02:00.0: DVB: registering adapter 1 frontend 1 (Silicon Labs Si2183) bobgbob-All-Series:~\$	
a	

5.3 Dvblast to scan channels: 5.3.1 DVBS/S2: adapter0: # cd /dev/dvb/ adapter0 # In -s demux0 demux1 # In -s dvr0 dvr1 dvblast -f 12538000 -s 41250000 -v 13 -a 0 -n 1 (DVBS) dvblast -f 12660000 -s 45000000 -v 13 -m psk_8 -a 0 -n 1(DVBS2) dvblast -f 12630000 -s 43200000 -v 18 -m psk 8 -a 0 -n 1(DVBS2) adapter1: # cd /dev/dvb/ adapter1 # In -s demux0 demux1 # In -s dvr0 dvr1 dvblast -f 12538000 -s 41250000 -v 13 -a 0 -n 1(DVBS) dvblast -f 12660000 -s 45000000 -v 13 -m psk_8 -a 1 -n 1(DVBS2) dvblast -f 12630000 -s 43200000 -v 18 -m psk_8 -a 1 -n 1(DVBS2) 5.3.2 DVBT/T2: Adapter0: dvblast -f 47400000 -b 8 -a 0 adapter1:



dvblast –f 65000000 –b 8 –a 1 5.3.3 DVBC: adapter0: Dvblast –f 474000000 –s 6900000 –a 0 -5 DVBC_ANNEX_A adapter1: dvblast –f 474000000 –s 6900000 –a 1 -5 DVBC_ANNEX_A