

# BTW12.0.0.7800 USB Profile Package



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### Release Notes

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## INTRODUCTION

This software package consists of the BTW12 build 12.0.0.7800 that contains the software applications and drivers that can be installed on the Intel x86 / x64 USB platforms. The software has been tested on the Windows Blue operating system (Windows 8.1 **version 6.3.9471**) and on the RTM version of Windows 8. The installer provided can install the relevant drivers based on the platform on which the software is being installed.

This release of BTW12 contains drivers for the x86 / x64 UART platforms that have passed WHCK tests and are signed by Microsoft.

## CUSTOMER SUPPORT PORTAL (CSP)

Customers can submit enhancements, changes and/or defects against releases of software or firmware via the Broadcom Customer Support Portal (CSP). CSP cases are replicated into the Broadcom Bluetooth engineering change management database for review by the engineering community and change control boards.

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To start using the CSP please visit <http://support.broadcom.com>.

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## Key Changes

A combined installer is available for the Windows 8 and Windows 8.1 platforms.

## Windows 8

This version of the software incorporates a change in the manner in which a software ON/OFF operation of the Bluetooth device is handled. The software ON/OFF operation can be performed using either the airplane slider switch or the Bluetooth slider switch. The following changes are expected:

- The Bluetooth device will continue to be enumerated and seen in the device manager.
- Other paired Bluetooth devices in the device manager will NOT be disabled but Bluetooth functionality will not be available.
- Short cuts available for the paired Bluetooth devices as tiles will not be present when the device is turned off.

## Issues Fixed – Windows 8

Defect ID	Description
BLTH01706314	BTW does not switch to AMP when FTP to Atheros stack. [build 2800]
BLTH01688845	Need VID/PID 0489/E033 to be enabled in BTW12 bcbtums driver for 20702 flash module. [build 2800]
BLTH01688847	Need VID/PID 0489/E047 to be enabled in BTW12 bcbtums driver for 4313+20702 combo module. [build 2800]
BLTH01703390	Stackserver and BTTray Disk I/O to be reduced per customer requirements. [build 2950]
BLTH01726113	Driver update for btwampfl. [build 3000]
BLTH01726058	Reduce time to start-up stackserver. [build 3000]
BLTH01724288	BT Stackserver crashes while connecting to headset. [build 3000]
BLTH01727834	20702 serial flash module ON/OFF function doesn't work. [build 3100]
BLTH01727817	BtStackServer does not close FTP Client application correctly when system is put in S3/S4 state. [build 3100]
BLTH01576198	File transfer does not switch to AMP after system resumes from power cycles (Sleep/hibernate). [build 3100]
BLTH01735976	BTW is non-functional for devices not serviced by bcbtums.sys. [build 3200]
BLTH01721130	Bluetooth COM server crash observed during AV connection after system resume from hibernate mode. [build 3400]
BLTH01726012	Sync is not successful after resumed from hibernate. [build 3400]

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BLTH01747213	BT tray icon status has no change in airplane mode ON. [build 3500]
BLTH01739065	Stackserver and BTTray Disk I/O to be reduced per customer requirements. [build 3500]
BLTH01753585	Control UI does not open after pairing with BLE Key fob and trying to open control UI of fob from devices and printers BT stackserver exits. [build 3550]
BLTH01766058	There are two BT icon on system tray when airplane mode ON. [build 3800]
BLTH01724455	FTP file access permission is not show on the Start screen (CSP-557864) [build 4000]
BLTH01751821	Send a 0 byte file from BRCM to Intel will get error message "The request could not be honored". [build 4000]
BLTH01763966	Change the FW hex file to new release BTW for Broadcom 20702 module VID/PID = 0489/E042. [build 4050]
BLTH01795264	Add E031 20702 A0 device into legacy driver package in BTW12. [build 4100]
BLTH01762024	Cannot connect to headset after BT off/on using wireless switch. [build 4200]
BLTH01795256	Switch to desktop from metro. [build 4200]
BLTH01809850	Change the 01A3 20702 device hex file to new release with fix for LE HID reconnect failure in baseline 1010.0000. [build 4200]
BLTH01811456	Fix for BTW toast notification under metro style. [build 4300]
BLTH01793826	Change friendly name for 0A5C/21F1 for Windows 8. [build 4400]
BLTH01800186	Change the 20702 standalone family hex files to new release with fix for LE HID reconnect failure in baseline 1010.0000. [build 4400]
BLTH01507005	Lync: Music does not switch to AV if remote user declines the call. [build 4500]
BLTH01852199	Add new device into BTW - VID/PID =0489/E062. [build 4600]
BLTH01870402	Change the 20702 standalone family hex files to new release with HID fix (HID failed to disconnect after BT off) in baseline 1055.0000. This is for device E052. [build 4700]
BLTH01875628	Change the 20702 standalone family hex files to new release with HID fix (HID failed to disconnect after BT off) in baseline 1055.0000. This is for devices 21E6 and 021E. [build 4800]
BLTH01811642	BTW not able to connect headset after Software Off-on multiple times. [build 4900]
BLTH01855145	After fresh install and pairing and try AV connection PC-PC, no audio is heard in sink PC. [build 4900]
BLTH01889952	System restarts automatically while BTW installation. [build 5000]
BLTH01896005	Change the BTW12 single installer sequence. [build 5000]
BLTH01897140	Add support for new combo device into BTW - VID/PID = 0930/0221. [build 5100]
BLTH01900582	Unrecognized word is displayed during BTW installation. [build 5100]

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BLTH01853690	Win8: mouse power status will disappear after s3, s4, s5 or restart. [build 5200]
BLTH01835097	A2DP audio is not heard on remote device after starting the Obex transfer (L2CAP) to the same or different device. [build 5200]
BLTH01852235	PAN Filter Driver Development. [build 5200]
BLTH01860770	Support for btwpanfl filter. [build 5200]
BLTH01904071	PAN over AMP: Occasionally PANFL to PANFL fails. [build 5200]
BLTH01895970	Congestion issue of PAN over AMP feature. [build 5200]
BLTH01904072	PAN over AMP: File transfer from both directions causes one side timed out. [build 5200]
BLTH01883550	BTWPANFL BSOD. [build 5200]
BLTH01957652	Driver update for btwpanfl and btwampfl. [build 5200]
BLTH01911723	BTHPAN BSOD in AMP over PAN testing. [build 5200]
BLTH01942109	Unable to reconnect PAN when PAN is disconnected during PAN +OPP data transfer. [build 5200]
BLTH01945282	OPP file transfer fails to switch to AMP when PAN-AMP file transfer is cancelled/PAN connection is disconnected. [build 5200]
BLTH01940738	OPP file transfer stops when PAN and OPP file transfer initiated immediately one after other. [build 5200]
BLTH01970656	BSOD on Win832/64bit OS: Pair & Connect BT headset and plug out dongle. [build 5300]
BLTH01886586	BSOD 0xC4 occur during Sleep and PNP with IO WHCK test. [build 5300]
BLTH02029896	Change btwdins service installation path. [build 5600]
BLTH02051939	Correct btwavdt driver event initialization problem. [build 5850]
BLTH02051763	Cannot establish PAN when paired with Smart phone. [build 5850]
BLTH02056537	Stack server may crash when PAN connecting to iPhone. [build 5860]
BLTH02046091	Add new project 20702 + 4352 combo device into BTW - VID/PID = 0A5C/21FB. [build 5900]
BLTH02046114	Change the 20702 family hex files to new release with HID fix (HID failed to disconnect after BT off) in baseline 1055.0000. [build 5900]
BLTH02032248	Change the hex file to new release for 43142 combo module VID/PID = 105B/E065. [build 5900]
BLTH01995484	BT Stack COM server crash observed during FTP server system power cycle. [build 5900]

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BLTH02081488	BTW FW Update for 4352 VID/PID 13D3/3404. [build 6100]
BLTH02092149	Incorrect File size shown if remote has a large file. [build 6200]
BLTH02105355	43142 Combo card does not enumerate correctly. [build 6300]
BLTH02107254	BTW 12 FTP Fails eventually after numerous attempts. [build 6300]
BLTH02135217	Installation log is not generated with f2 option. [build 6350]
BLTH02137044	Display turns on by plugging in USB device when airplane mode is turned on. [build 6400]
BLTH02143228	Add bcmhidnossr package to BTW install. [build 6400]
BLTH02177310	Need VID/PID to be added in BTW12 bcbtums driver for 20702+4352 combo module. [build 6500]
BLTH02088868	Not able to search nearby devices after software off-on. [build 6500]
BLTH02179089	Unknow Bluetooth peripheral device will be added to Devmgmr after pairing with BT HS. [build 6600]
BLTH02175333	BT speaker still shows in playback after removed this device in Win8. [build 6600]
BLTH02162046	Add new program (4352z) and update existing FW program (4335B0). [build 6600]
BLTH02178977	BTW 12 USB: change 43142 FW for LED changes- 04CA/2007. [build 6600]
BLTH02177046	Change the hex file to new release for 43228+20702 combo module VID/PID = 105B/E066. [build 6600]
BLTH02140296	Need support in BTW 12 for testing the new 4360 chip 0A5C_21FC. [build 6600]
BLTH02177043	Change the hex file to new release for 43142 combo module VID/PID = 105B/E065. [build 6600]
BLTH02163635	BT still able to inquiry when air-plane mode ON. [build 6600]
BLTH02205419	WHCK signed bcbtums version 12.0.0.6273. [build 6600]
BLTH02194154	Fix security vulnerabilities as per MSDN documentation. [build 6800]
BLTH02090526	Pop up an exclamation mark in the system tray. [build 6850]
BLTH02225042	Added new VID/PID 0A5C/2167 for 43142Y (NGFF) to BTW 12 (non WHCK) and update FW for existing Project. [build 6900]
BLTH02219171	Changed 43142 FW due to output power changes - 04CA/2007. [build 6900]
BLTH02221771	Add new project 43142 combo device into BTW - VID/PID = 0A5C/21FE. [build 6900]
BLTH02209065	Please update FW in BTW 12 for BRCM Generic 4335B0 VID/PID 0A5C/2166. [build 6900]

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BLTH02208957	Need VID/PID to be added in BTW12 bcbtums driver for 43142 combo module. [build 6900]
BLTH02211080	Need VID/PID to be added in BTW12 bcbtums driver for 4360+20702 combo module. [build 6900]
BLTH02210954	BTItunesPlugin.exe error pop-out when reboot system with iTunes open. [build 6900]
BLTH02246956	Update HEX files to add LED Radio Off state. [build 6950]
BLTH02265548	Update for help file. [build 7000]
BLTH02375657	Connection failed when connected with Sony wireless speaker SRS-BTV5. [build 7100]
BLTH02258953	Need VID/PID to be added in BTW12 bcbtums driver for 4352+20702 NGFF combo module. [build 7100]
BLTH02259154	Update Supra/Bumblebee/Vegas hex files to add LED Radio Off state. [build 7100]
BLTH02253676	Add new project 4352 NGFF into BTW - VID/PID = 0930/0223. [build 7100]
BLTH02272762	Change FW hex file for 4352 NGFF into BTW - VID/PID = 0930/0223. [build 7100]
BLTH02309586	Driver to fix Windows 8 to WinBlue upgrade. [build 7100]
BLTH02194130	Device Install Check For Other Device Stability WHCK test fails for 4352 using 6273 driver. [build 7100]
BLTH02377257	Change the hex file to new release for Lenovo 43142 combo module VID/PID = 105B/E065. [build 7200]
BLTH02420557	Change 20702 FW to baseline 1315.0000. [build 7402]

## Driver Signing Report – Windows 8

This signed driver report for this build is shown below.

Folder: BTW 12.0.0.7800\_\*\*\*\Win32\

Driver:	Signed?	Signature:	Valid?	SubmissionID:	Version:	OS list:
bcbtums-win8x86-brcm.cat	Yes	WHQL	Yes	1599134	12.0.0.7620	Win8 WinNext
--> bcmbtrsupport.dll					12.0.0.7600	
--> btwdi.dll					12.0.0.7030	
--> btwampfl.sys					12.0.0.7403	
--> btwrsupportservice.sys					12.0.0.7600	
--> bcbtums.sys					12.0.0.7600	
bcmhidnossr.cat	Yes	WHQL	Yes	1589800	1.0.0.102	Win 7 Win8 WinNext
btwaudio.cat	Yes	WHQL	Yes	1600304	12.0.0.6501	Win8 WinNext
--> btwaudio.sys					12.0.0.6501	
--> btwavdt.sys					12.0.0.6501	
btwavdt.cat	Yes	WHQL	Yes	1600285	12.0.0.6501	Win8 WinNext
--> btwavdt.sys					12.0.0.6501	
btwl2cap-x86.cat	Yes	WHQL	Yes	1588583	12.0.0.1680	Win8 WinNext
--> btwl2cap.sys					12.0.0.1680	



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btwrchid.cat	Yes	WHQL	Yes	1600283	12.0.0.7020	Win8 WinNext
--> btwrchid.sys					12.0.0.7020	
--> btwavdt.sys					12.0.0.6501	
bcbtumsld-win7x86.cat	Yes	WHQL	Yes	1599114	12.0.0.7600	Win7
--> btwrsupportservice.exe					12.0.0.7600	
--> btwdi.dll					12.0.0.7030	
--> bcmbtrsupport.dll					12.0.0.7600	
--> bcbtums.sys					12.0.0.7600	
--> btwampfl.sys					12.0.0.7403	

Folder: BTW 12.0.0.7800\_\*\*\*/Win64/

Driver:	Signed?	Signature:	Valid?	SubmissionID:	Version:	OS list:
bcbtums-win8x64-brcm.cat	Yes	WHQL	Yes	1599134	12.0.0.7620	Win8 WinNext
--> bcmbtrsupport.dll					12.0.0.7600	
--> btwdi.dll					12.0.0.7030	
--> btwampfl.sys					12.0.0.7403	
--> btwrsupportservice.sys					12.0.0.7600	
--> bcbtums.sys					12.0.0.7600	
bcmhidnossr.cat	Yes	WHQL	Yes	1589800	1.0.0.102	Win 7 Win8 WinNext
btwaudio64.cat	Yes	WHQL	Yes	1600304	12.0.0.6501	Win8 WinNext
--> btwaudio.sys					12.0.0.6501	
--> btwavdt.sys					12.0.0.6501	
btwavdt64.cat	Yes	WHQL	Yes	1600285	12.0.0.6501	Win8 WinNext
--> btwavdt.sys					12.0.0.6501	
btwl2cap-x64.cat	Yes	WHQL	Yes	1588583	12.0.0.1680	Win8 WinNext
--> btwl2cap.sys					12.0.0.1680	
btwrchid64.cat	Yes	WHQL	Yes	1600283	12.0.0.7020	Win8 WinNext
--> btwrchid.sys					12.0.0.7020	
--> btwavdt.sys					12.0.0.6501	
bcbtumsld-win7x64.cat	Yes	WHQL	Yes	1599114	12.0.0.7600	Win7
--> btwrsupportservice.exe					12.0.0.7600	
--> btwdi.dll					12.0.0.7030	
--> bcmbtrsupport.dll					12.0.0.7600	
--> bcbtums.sys					12.0.0.7600	
--> btwampfl.sys					12.0.0.7403	

## Windows 8 Tips

1. Snippet Tool for capturing screenshots described here:  
<http://www.thewindowsclub.com/snipping-tool-capture-screenshots-windows-8-tips>
2. Windows key + R gives the Run prompt where you can type:
  - a. devmgmt.msc for device manager
  - b. control for control panel
  - c. cmd for command prompt
3. Windows Key + C = Bring up Time/Date, Start menu (This will show Share link)
4. Windows Key + Q = Application Search

## **BTW12.0.0.7800 USB Profile Package**

5. Windows Key + W = Settings Search
6. Windows Key + F = File Search
7. Windows Key + I = Settings Charm

Windows Key + X = Will bring up a menu of most of the Win 7 utilities we use (search, run, devmanager, and so on)