

BTW12.0.0.9850 USB Profile Package

Release Notes

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INTRODUCTION

This software package consists of the BTW12 build 12.0.0.9850 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 **RTM version**) 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 USB platforms that have passed WHCK Tests and are signed by Microsoft

CUSTOMER SUPPORT PORTAL (CSP)

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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
BLTH03236907	Signed files for Win8 and 8.1[9850]
BLTH03219394	Change 20702A1 FW to baseline v1483 - fix audio playback *glitch* when inquiry[build 9840]
BLTH03219340	Update 20702A1 baseline to 1483[build 9840]
BLTH03193437	Add new VID_0B05/PID_180A with 20702 FW to BTW WHCK[build 9840]
BLTH03208191	Add new Projects to BTW 12 32/64 bit non-WHCK[build 9840]
BLTH03146284	Request a win8 WHCK BT driver[build 9820]
BLTH03122463	Driver only installer can't re-install the driver once removed from device manager[build 9810]
BLTH03100096	BCM43162 VID_0489&PID_E079 change FW to 0066.0115 -Win8/8.1 WHCK[build 9800]
BLTH03098021	Add 4352+20702 M.2 project to -BTW - VID/PID = 0A5C/216F, for WHCK[build 9760]
BLTH03084903	Add 4352+20702 M.2 project to -BTW - VID/PID = 0A5C/216F[build 9760]
BLTH02611628	Reject From HF fails[build 9750]
BLTH03045672	Added support for requested device in -DEV USB driver package[build 9665]
BLTH03053340	Customization for HF, PBAP, MAP[build 9665]
BLTH02292915	Wi-Fi Display App update[build 9600]
BLTH03041234	VID/PID to be added in BTW12 bcbtums driver for 43228 NGFF WHCK[build 9590]
BLTH02995019	Add BRCM 43162Z FW to BTW12 WHCK .inf under Family WHCK[build 9580]
BLTH02938853	Change 20702A1 (PID/VID: 04CA/200F) FW TX power table [build 9580]
BLTH02940582	Spy doesn't work in USB driver-only deploys[build 9580]
BLTH02978139	Sleep/Hibernate-> Headset not connects to HF service[build 9550]
BLTH02958066	Single antenna module - BT Headphone audio quality is poor when resuming from S4[build 9550]
BLTH02986899	driver update for btwaudio, btwavdt and btwrchid[build 9550]
BLTH02970668	Change FW for 43162 NGFF - VID/PID = 0489/E079 &0930/0229 - WHCK[build 9500]
BLTH02970670	drivers update for btwaudio, btwavdt and btwrchid[build 9400]
BLTH02970679	drivers update for bcbtums and btwserialbus[build 9400]
BLTH02919515	Audio/image/video file cannot be received by another user [build 9380]
BLTH02876384	File is overwritten without warning when same name file is received. [build 9380]
BLTH0292497	added in BTW12 bcbtums WHCK driver for 43162 NGFF combo module[build 9360]
BLTH02921339	Instal remote control HID driver on demand[build 9350]
BLTH02887678	Spy should try BTWAMPFL after USB or UART transport drivers[build 9200]
BLTH02853765	HID device connection is going but mouse movement seen on both systems. [build 9200]
BLTH02893083	btwaudio driver whql signed files check in[build 9200]
BLTH02870615	PC-PC AV Connected, But Music is not heard on AV sink system[build 9190]
BLTH02790193	Around 1 Sec audio break is observed after 20-30 sec in BT HS[build 9180]
BLTH02850032	Added VID/PID (185F/2167) to be added in BTW12[build 9170]
BLTH02841366	Added VID/PID (04CA/200F) in BTW12[build 9170]
BLTH02839533	Remove CM3 INF flag for 4335 based chips[build 9170]
BLTH02837679	Connect HID device opens full screen HIDdevice tray[build 9170]
BLTH02817451	HID Device connection is not going through. [build 9150]
BLTH02820538	VID/PID (13D3/3435) to be added in BTW12 for BCM20702A1_4352 [build 9140]
BLTH02776073	Change 43162 FW for VID/PID 0489/E079 - win8 & win 8.1 -DEV [build 9140]
BLTH02764302	Added VID/PID 0A5C/745D for BRCM Generic 20703A0 Serial Flash Dongle non-UHE [build 9140]

BLTH02710117	VID/PID to be added in BTW12 bcbtums driver for 4352 NGFF combo module[build 9140]
BLTH02820542	VID/PID (13D3/3456) added in BTW12 for BCM20702A1_4352 [build 9140]
BLTH02779743	Add ACPID BCM2E5C to btwserialbus.inf file for 43241B4 Project [build 9140]
BLTH02818753	Change 43228+20702 FW for module VID/PID 04CA/200E WHCK [build 9140]
BLTH02818782	MSI based installer does not work on x64[build 9130]
BLTH02797953	Add localization support to new MSI driver installer[build 9120]
BLTH02711846	HFP API - Hold the active call then hang up,call does not end. [build 9110]
BLTH02507326	Mouse movement is not smooth during HID device connectionbuild 9110]
BLTH02713727	Force to end task via taskkill[build 9100]
BLTH02741538	BTTray handle count increase in Mem usage analysis [build 9090]
BLTH02711938	Add new project 43162 NGFF into BTW - VID/PID = 0A5C/216E[build 9060]
BLTH02708124	Add new project 43162 NGFF into BTW - VID/PID = 0930/0229[build 9060]
BLTH02707915	change 20702 FW to baseline 1443.0000 - LE Dual Mode fix - Win8/8.1 WHCK
BLTH02704802	Need VID/PID to be added in BTW12 bcbtums driver for Lenovo 43162 NGFF combo module[build 9060]
BLTH02698089	43142A0 USB hub failure workaround[build 9060]
BLTH02698090	change 20702 FW to baseline 1443.0000 - LE Dual Mode fix - Win8/8.1 WHCK
BLTH02694665	driver update for bcbtums and btwserialbus [build 9000]
BLTH02631893	Merge btwrsupport code for LS and 4.0 radios[build 9000]
BLTH02616726	Add 4352z ngff combo device into BTW -VID/PID = 0A5C/216B [build 9000]
BLTH02603829	AddDW1708 43142Y combo device into BTW - VID/PID = 0A5C/216A [build 9000]
BLTH02577897	Radio on/off does not work on Win8.1 and BT 3.0 radio[build 9000]
BLTH02629831	Uninstall after OS upgrade[build 9000]
BLTH02677803	Add 43142Y ngff combo device into BTW -VID/PID = 0A5C/216D [build 9000]
BLTH02663314	change 43142 FW for device 2007 - Win8 and 8.1 WHCK package [build 9000]
BLTH02659745	Change 43228+2072 combo FW for module VID/PID 105B/E066 -win8 & win8.1 WHCK[build 9000]
BLTH02657213	Need VID/PID to be added in BTW12 bcbtums driver for 43228 NGFF combo module [build 9000]
BLTH02643745	Change 43142A0 FW for module VID/PID 105B/E065 - win8 & win 8.1 WHCK [build 9000]
BLTH02626279	Remote mouse is not smooth when use "Remote Keyboard and Mouse" function. [build 8070]
BLTH02641822	BT P2P WHCK failure. [build 8060]
BLTH02570348	Sleep PnP test BSOD due to BTW. [build 8050]
BLTH02557968	HFP and A2DP services are not connected if the headset is removed and paired again. [build 8030]
BLTH02540444	BT headset can't auto connect after re-paired. [build 8030]
BLTH02528392	Please add BRCM Generic 43228Z project (0A5C/2169) to BTW12 Win8 and Win8.1. [build 8030]
BLTH02526254	Help files for Chinese language are incorrect. [build 7850]
BLTH02513564	WHCK test failes with BTW installed on Harrisbeach. This resulted in changes to the BT stack server and is therefore listed here. [build 7820]
BLTH02420557	Change 20702 FW to baseline 1315.0000. [build 7402]
BLTH02377257	Change the hex file to new release for Lenovo 43142 combo module VID/PID = 105B/E065. [build 7200]
BLTH02375657	Connection failed when connected with Sony wireless speaker SRS-BTV5. [build 7100]
BLTH02309586	Driver to fix Windows 8 to WinBlue upgrade. [build 7100]
BLTH02272762	Change FW hex file for 4352 NGFF into BTW - VID/PID = 0930/0223. [build 7100]

BLTH02265548	Update for help file. [build 7000]
BLTH02259154	Update Supra/Bumblebee/Vegas hex files to add LED Radio Off state. [build 7100]
BLTH02258953	Need VID/PID to be added in BTW12 bcbtums driver for 4352+20702 NGFF combo module. [build 7100]
BLTH02253676	Add new project 4352 NGFF into BTW - VID/PID = 0930/0223. [build 7100]
BLTH02194130	Device Install Check For Other Device Stability WHCK test fails for 4352 using 6273 driver. [build 7100]
BLTH02246956	Update HEX files to add LED Radio Off state. [build 6950]
BLTH02225042	Added new VID/PID 0A5C/2167 for 43142Y (NGFF) to BTW 12 (non WHCK) and update FW for existing Project. [build 6900]
BLTH02221771	Add new project 43142 combo device into BTW - VID/PID = 0A5C/21FE. [build 6900]
BLTH02219171	Changed 43142 FW due to output power changes - 04CA/2007. [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]
BLTH02209065	Please update FW in BTW 12 for BRCM Generic 4335B0 VID/PID 0A5C/2166. [build 6900]
BLTH02208957	Need VID/PID to be added in BTW12 bcbtums driver for 43142 combo module. [build 6900]
BLTH02090526	Pop up an exclamation mark in the system tray. [build 6850]
BLTH02194154	Fix security vulnerabilities as per MSDN documentation. [build 6800]
BLTH02205419	WHCK signed bcbtums version 12.0.0.6273. [build 6600]
BLTH02179089	Unknow Bluetooth peripheral device will be added to Devmgmr after pairing with BT HS. [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]
BLTH02177043	Change the hex file to new release for 43142 combo module VID/PID = 105B/E065. [build 6600]
BLTH02175333	BT speaker still shows in playback after removed this device in Win8. [build 6600]
BLTH02163635	BT still able to inquiry when air-plane mode ON. [build 6600]
BLTH02162046	Add new program (4352z) and update existing FW program (4335B0). [build 6600]
BLTH02140296	Need support in BTW 12 for testing the new 4360 chip 0A5C_21FC. [build 6600]
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]
BLTH02143228	Add bcmhidnossr package to BTW install. [build 6400]
BLTH02137044	Display turns on by plugging in USB device when airplane mode is turned on. [build 6400]
BLTH02135217	Installation log is not generated with f2 option. [build 6350]
BLTH02107254	BTW 12 FTP Fails eventually after numerous attempts. [build 6300]
BLTH02105355	43142 Combo card does not enumerate correctly. [build 6300]
BLTH02092149	Incorrect File size shown if remote has a large file. [build 6200]
BLTH02081488	BTW FW Update for 4352 VID/PID 13D3/3404. [build 6100]
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]
BLTH02046091	Add new project 20702 + 4352 combo device into BTW - VID/PID = 0A5C/21FB. [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]
BLTH02056537	Stack server may crash when PAN connecting to iPhone. [build 5860]
BLTH02051939	Correct btwavdt driver event initialization problem. [build 5850]
BLTH02051763	Cannot establish PAN when paired with Smart phone. [build 5850]
BLTH02029896	Change btwdins service installation path. [build 5600]
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]
BLTH01957652	Driver update for btwpanfl and btwampfl. [build 5200]
BLTH01883550	BTWPANFL BSOD. [build 5200]
BLTH01945282	OPP file transfer fails to switch to AMP when PAN-AMP file transfer is cancelled/PAN connection is disconnected. [build 5200]
BLTH01942109	Unable to reconnect PAN when PAN is disconnected during PAN +OPP data transfer. [build 5200]
BLTH01940738	OPP file transfer stops when PAN and OPP file transfer initiated immediately one after other. [build 5200]
BLTH01895970	Congestion issue of PAN over AMP feature. [build 5200]
BLTH01860770	Support for btwpanfl filter. [build 5200]
BLTH01852235	PAN Filter Driver Development. [build 5200]
BLTH01911723	BTHPAN BSOD in AMP over PAN testing. [build 5200]
BLTH01904072	PAN over AMP: File transfer from both directions causes one side timed out. [build 5200]
BLTH01904071	PAN over AMP: Occasionally PANFL to PANFL fails. [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]
BLTH01853690	Win8: mouse power status will disappear after s3, s4, s5 or restart. [build 5200]
BLTH01900582	Unrecognized word is displayed during BTW installation. [build 5100]
BLTH01897140	Add support for new combo device into BTW - VID/PID = 0930/0221. [build 5100]
BLTH01896005	Change the BTW12 single installer sequence. [build 5000]
BLTH01889952	System restarts automatically while BTW installation. [build 5000]
BLTH01855145	After fresh install and pairing and try AV connection PC-PC, no audio is heard in sink PC. [build 4900]
BLTH01811642	BTW not able to connect headset after Software Off-on multiple times. [build 4900]
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]
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]
BLTH01852199	Add new device into BTW - VID/PID =0489/E062. [build 4600]
BLTH01507005	Lync: Music does not switch to AV if remote user declines the call. [build 4500]
BLTH01800186	Change the 20702 standalone family hex files to new release with fix for LE HID reconnect failure in baseline 1010.0000. [build 4400]
BLTH01793826	Change friendly name for 0A5C/21F1 for Windows 8. [build 4400]
BLTH01811456	Fix for BTW toast notification under metro style. [build 4300]
BLTH01809850	Change the 01A3 20702 device hex file to new release with fix for LE HID reconnect failure in baseline 1010.0000. [build 4200]
BLTH01795256	Switch to desktop from metro. [build 4200]
BLTH01762024	Cannot connect to headset after BT off/on using wireless switch. [build 4200]
BLTH01795264	Add E031 20702 A0 device into legacy driver package in BTW12. [build 4100]

BLTH01763966	Change the FW hex file to new release BTW for Broadcom 20702 module VID/PID = 0489/E042. [build 4050]
BLTH01751821	Send a 0 byte file from BRCM to Intel will get error message "The request could not be honored". [build 4000]
BLTH01724455	FTP file access permission is not show on the Start screen (CSP-557864) [build 4000]
BLTH01766058	There are two BT icon on system tray when airplane mode ON. [build 3800]
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]
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]
BLTH01726012	Sync is not successful after resumed from hibernate. [build 3400]
BLTH01721130	Bluetooth COM server crash observed during AV connection after system resume from hibernate mode. [build 3400]
BLTH01735976	BTW is non-functional for devices not serviced by bcbtums.sys. [build 3200]
BLTH01727834	20702 serial flash mdoule 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/hinernate). [build 3100]
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]
BLTH01703390	Stackserver and BTTray Disk I/O to be reduced per customer requirements. [build 2950]
BLTH01706314	BTW does not switch to AMP when FTP to Atheros stack. [build 2800]
BLTH01688847	Need VID/PID 0489/E047 to be enabled in BTW12 bcbtums driver for 4313+20702 combo module. [build 2800]
BLTH01688845	Need VID/PID 0489/E033 to be enabled in BTW12 bcbtums driver for 20702 flash module. [build 2800]

Driver Signing Report – Windows 8x

Folder: BTW 12.0.0.9850_***/Win32/

Driver:	Signed?	Signature:	Valid?	Submission ID:	Version:	OS list:
bcbtums-win8x86-brcm.cat	Yes	WHQL	Yes	1667132	12.0.0.9840	Win8 WinNext
--> btwampfl.sys					12.0.0.9190	
--> btwrsupportservice.exe					12.0.0.8048	
--> bcmbtrsupport.dll					12.0.0.8047	
--> btwdi.dll					12.0.0.7030	
--> bcbtums.sys					12.0.0.8047	
bcmhidnossr.cat	Yes	WHQL	Yes	1589800	1.0.0.102	Win 7 Win8 WinNext
btwaudio.cat	Yes	WHQL	Yes	1655420	12.0.0.9690	Win8 WinNext
--> btwaudio.sys					12.0.0.9690	
--> btwavdt.sys					12.0.0.9410	
btwavdt.cat	Yes	WHQL	Yes	1654583	12.0.0.9670	Win8 WinNext
--> btwavdt.sys					12.0.0.9410	
btwl2cap-x86.cat	Yes	WHQL	Yes	1588583	12.0.0.1680	Win8 WinNext
--> btwl2cap.sys					12.0.0.1680	
btwrchid.cat	Yes	WHQL	Yes	1641519	12.0.0.9410	Win8 WinNext
--> btwrchid.sys					12.0.0.9410	
--> btwavdt.sys					12.0.0.9410	
bcbtumsld-win7x86.cat	Yes	WHQL	Yes	1616814	12.0.0.8047	Win7
--> btwdi.dll					12.0.0.7030	
--> btwrsupportservice.exe					12.0.0.8047	
--> bcmbtrsupport.dll					12.0.0.7600	
--> btwampfl.sys					12.0.0.7403	
--> bcbtums.sys					12.0.0.8047	

Folder: BTW 12.0.0.9850_***/Win64/

Driver:	**Signed?**	**Signature:**	**Valid?**	**Submission ID:**	**Version:**	**OS list:**
bcbtums-win8x64-brcm.cat	Yes	WHQL	Yes	1667132	12.0.0.9820	Win8 WinNext
--> btwampfl.sys					12.0.0.9190	
--> btwrsupportservice.exe					12.0.0.8048	
--> bcmbtrsupport.dll					12.0.0.8047	
--> btwdi.dll					12.0.0.7030	
--> bcbtums.sys					12.0.0.8047	
bcmhidnossr.cat	Yes	WHQL	Yes	1589800	1.0.0.102	Win 7 Win8 WinNext
btwaudio64.cat	Yes	WHQL	Yes	1655420	12.0.0.9690	Win8 WinNext
--> btwaudio.sys					12.0.0.9690	
--> btwavdt.sys					12.0.0.9410	
btwavdt64.cat	Yes	WHQL	Yes	1654583	12.0.0.9670	Win8 WinNext
--> btwavdt.sys					12.0.0.9410	
btwl2cap-x64.cat	Yes	WHQL	Yes	1588583	12.0.0.1680	Win8 WinNext
--> btwl2cap.sys					12.0.0.1680	
btwrchid64.cat	Yes	WHQL	Yes	1641519	12.0.0.9410	Win8 WinNext
--> btwrchid.sys					12.0.0.9410	
--> btwavdt.sys					12.0.0.9410	
bcbtumsld-win7x64.cat	Yes	WHQL	Yes	1616814	12.0.0.8047	Win7
--> btwdi.dll					12.0.0.7030	
--> btwrsupportservice.exe					12.0.0.8047	
--> bcmbtrsupport.dll					12.0.0.7600	
--> btwampfl.sys					12.0.0.7403	
--> bcbtums.sys					12.0.0.8047	