

[Guide] airport_pcie-hm_plist_edits.pdf



Requirements

1. 10.8.5 or newer (This technique does not work in 10.8.4 or earlier)

Tools

1. IORegistryExplorer, IOJones
2. Property list editor - Xcode, Property List Editor, Plist Editor, or TextEdit
3. Kext installer - KextBeast, Kext Utility, DPCIManager

I. Broadcom WiFi

A. Determine WiFi Card Device_ID

1. Download, install and run DPCIManager 1.5 Open Beta
2. Find Vendor-ID 14E4 (Broadcom) or 168E (Atheros) in DPCIManager/PCI
3. Note Device_ID and verify with supported Device_IDs above.
4. Vendor/Device ID is 14E4/4357; BCM943225

B. Edit Info.plist

1. Backup S/L/E/IO80211Family.kext
2. Copy S/L/E/IO80211Family.kext to Desktop
3. Property List Editor/Open/Desktop/IO80211Family.kext/Contents/Plugins/AirPortBrcm4360.kext/Contents/Info.plist
4. Open IOKitPersonalities
5. Open Broadcom 802.11 PCI
6. Open IONameMatch
7. find: <string>pci14e4,43a0</string> Native
8. add: <string>pci14e4,4353</string> For BCM943224 HMS
9. add: <string>pci14e4,4357</string> For BCM943225 HMB
- or add: <string>pci14e4,43b1</string> For BCM94352 HMB
10. Save
11. Run kext installer

Note: 8. add means:

1. Copy Item 2
2. Paste Item 2 on IONameMatch

3. Edit the new item 0, from 43a0 to 4353

See **Example** screenshots below

II. Broadcom BT

A. Determine WiFi Card/Bluetooth ProductID/VendorID

1. System Information/Hardware/USB
2. Select ".. Bluetooth..."/BCM207020A
3. Note: ProductID/Convert hex to decimal/Ex. 0x217d = decimal 8573
4. Note: VendorID/Convert hex to decimal/Ex. 0x0a5c = decimal 2652 (Broadcom)

B. Edit Info.plist

1. Backup S/L/E/IOBluetoothFamily.kext
2. Copy S/L/E/IOBluetoothFamily.kext to Desktop
3. Property List Editor/Open/Desktop/IOBluetoothFamily/Contents/Plugins/BroadcomBluetoothHostControllerUSBTransport/Contents/Info.plist
4. Open IOKitPersonalities
5. Open BroadcomUSBBluetoothHCIController - MediaLink BT4.0 Adapter

III. Atheros WiFi

A. Determine WiFi Card Device_ID

1. Download, install and run DPCIManager 1.5 Open Beta
2. Find Vendor-ID 168E (Atheros) in DPCIManager/PCI
3. Note Device_ID and verify with supported Device_IDs above.
4. Vendor/Device ID is 168E/2B; AR9285

B. Edit Info.plist

1. Backup S/L/E/IO80211Family.kext
2. Copy S/L/E/IO80211Family.kext to Desktop
3. Property List Editor/Open/Desktop/IO80211Family.kext/Contents/Plugins/AirPortAtheros40.kext/Contents/Info.plist
4. Open IOKitPersonalities
5. Open Atheros Wireless LAN PCI
6. Open IONameMatch
7. find: <string>pci168c,2a</string> Native
8. add: <string>pci168c,2b</string> For AR9285
or add: <string>pci168c,2e</string> For AR9287
9. Save
10. Run kext installer

Note: 8. add means:

1. Copy Item 2
2. Paste Item 2 on IONameMatch
3. Edit the new item 0, from 2a to 2b

See **Example** screenshots below

III. Atheros BT

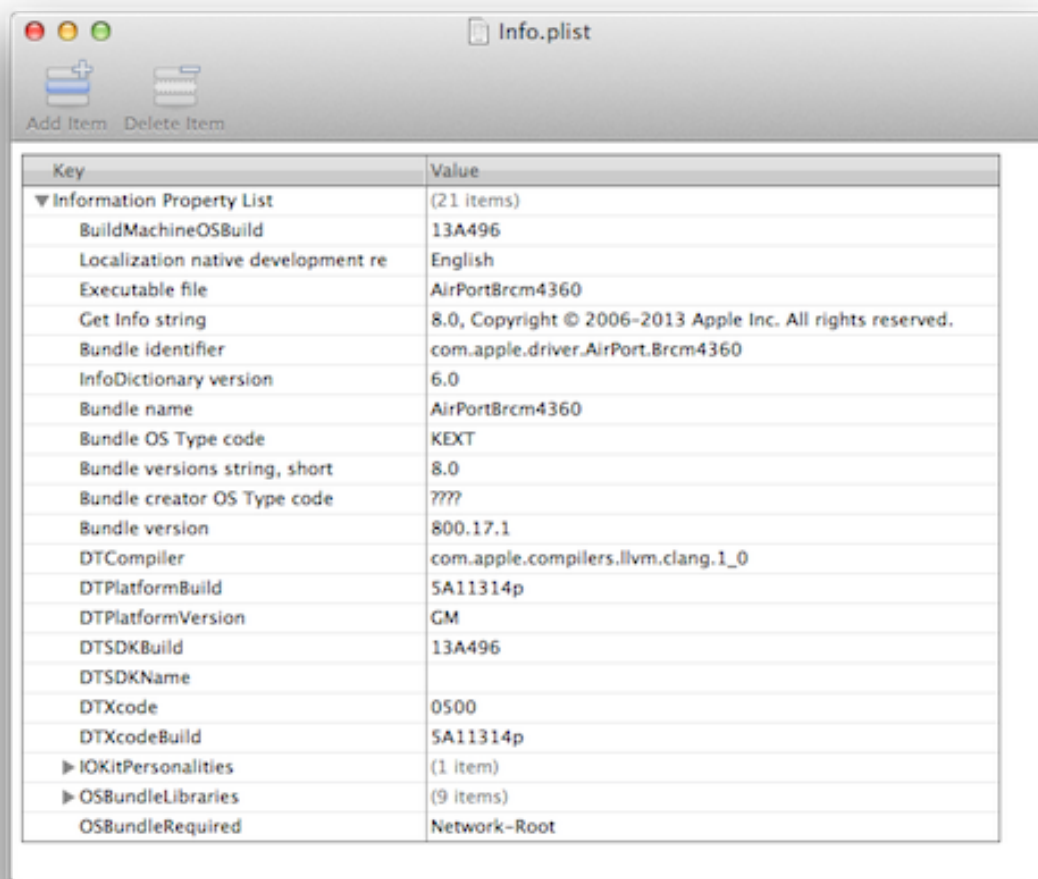
1. Atheros BT is not supported natively, search IOath3kfrmwr
2. Native Broadcom BT support:
GMYLE Micro USB Bluetooth 4.0 Dongle Dual Mode Wireless Adapter I GMYLE

Configuration/Troubleshooting

See [Guide] airport_pcie-hm_details.pdf

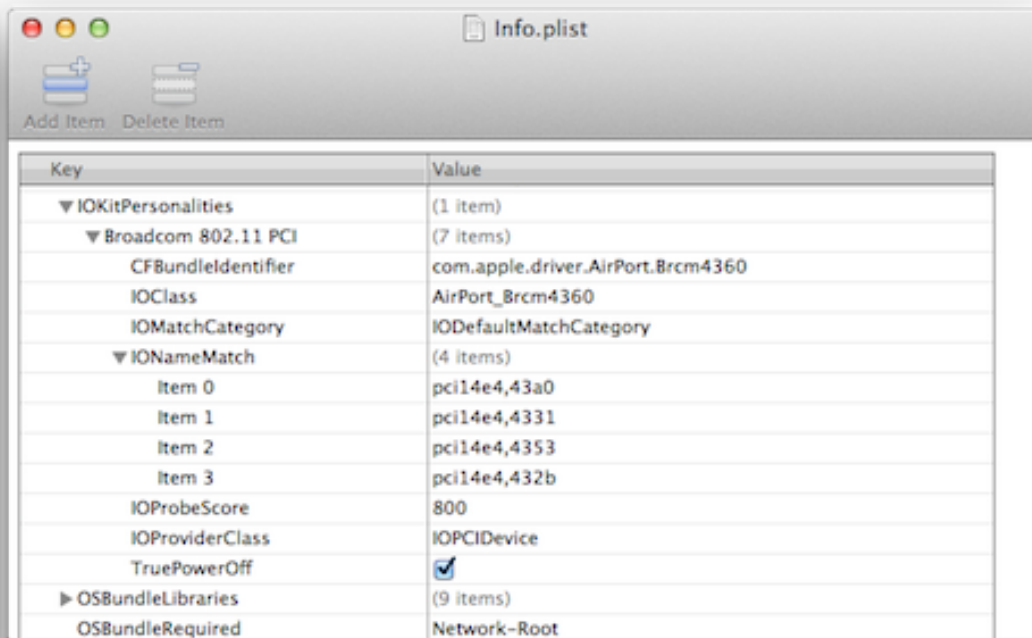
Example

Property List Editor/Open/S/L/E/IO80211Family.kext/Contents/Plugins/
AirPortBrcm4360.kext/Contents/Info.plist

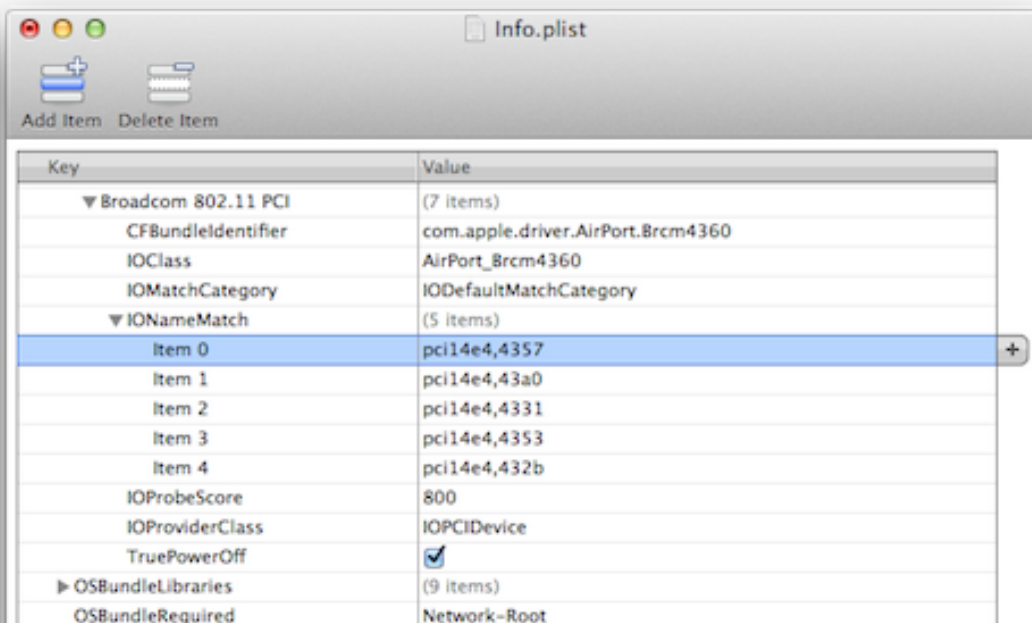


Key	Value
▼ Information Property List	(21 items)
BuildMachineOSBuild	13A496
Localization native development re	English
Executable file	AirPortBrcm4360
Get Info string	8.0, Copyright © 2006–2013 Apple Inc. All rights reserved.
Bundle Identifier	com.apple.driver.AirPort.Brcm4360
InfoDictionary version	6.0
Bundle name	AirPortBrcm4360
Bundle OS Type code	KEXT
Bundle versions string, short	8.0
Bundle creator OS Type code	????
Bundle version	800.17.1
DTCompiler	com.apple.compilers.llvm.clang.1_0
DTPlatformBuild	5A11314p
DTPlatformVersion	GM
DTSDKBuild	13A496
DTSDKName	
DTXcode	0500
DTXcodeBuild	5A11314p
▶ IOKitPersonalities	(1 item)
▶ OSBundleLibraries	(9 items)
OSBundleRequired	Network-Root

Step 6 (before edit)



Step 8 (after edit)



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