Erledigt M.2 key M to M.2 key A(+E) for WIFI + BT adapter

Beitrag von „influenist" vom 31. März 2018, 18:44

Hi all,

Vor allem Entschuldigung für mein Englisch. Ich öffne dieses Thema, da es scheint, dass ich nicht in anderen Hackintosh Foren posten darf, daher würde ich gerne Ihre Meinung zu der Angelegenheit unten lesen.

As a Xiaomi Notebook Air 12.5 (2017) Hackintosh owner with INTEL WIFI I wish to find an internal solution for WIFI & BT. In my laptop I have a second M.2 slot. Which is M.2 Key M and is a PCIE type. Thus it theoretically allows us to use 4x PCI lanes for a M.2 Key A(or E) WIFI+BT module from e.g. Boardcom. With a converter Key M to Key A(or E). Currently I an OOB module (DW1930) and a converter board being shipped. Sadly I noticed the DW1930 is wider then a standard M.2 SSD module, so I ordered a DW1560 to be sure. Be aware of this in case you have limited space like my 12.5. As I'm writing this post I noticed that @dodvip123 (on another forum) has covered this part also and seemingly failed with his converting adapter. As my modules will come in soon, I will verify this.

USB lanes
It seems the pitfall here is the BT function. This uses the USB 2.0(or 3.0) lanes of the KEY A(E), something which the M.2 KEY M does not have. This can be overcome by using an internal USB connector as is done with this converter board. Sadly this board expands in hight and most likely will not fit in our laptops. Yet it will allow us to check the plausibility for designing a custom low profile adapter.

Connector
For the Xioami 12.5 air the Webcam port seems for me the most plausible option as it is directly on the USB bus. Hence a splitter in between for the connection of the adapter would allow to keep using the webcam at the same time. Hence as I'm not a connector expert, your advice on the other ports would be more then welcome. A last resort would be soldering the pins on the USB C port (not preferable).

Input from other laptop owners on their connectors (mainly webcam)

Since the Xiaomi Notebook Air 12.5 and 13.3 aren't the only laptops out here with an internal INTEL wifi chipset and an open M.2 Key M PCIE port. I wish to gather some input on other devices. Mainly the internal available connectors which are present to see if we can use a standardised port and develop a low profile converter with USB capabilities.

@Xioami Notebook Air 13.3 & Notebook Pro users, does any one have a picture of the webcam connector or can anybody provide it?
@OtheR laptop users with solded unsuported wlfi chipset and an open M.2 Key M PCIE slot. Please also provide a picture of your webcam connector and include the Latops brand & type

Ihre Eingabe zu diesem Thema wird sehr geschätzt!