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# *Realtek RTL8852BE Combo Module*

For a list of all currently documented  
**Realtek** chipsets with specifications,  
see [Realtek](#).

# abgn+ac+ax (AX1800)

## 802.11ax RTL8852BE Combo Module

### Platform

**Brand** • **Model** **Realtek RTL8852BE Combo**  
• **Rev** **Module**

**Interface** **USB 2.0**

**Connector** **M.2 2.0 (Key A/E)**

**Form factor** **2230**

**ID:****10ec:a852**

**Windows:** **USB\VID\_10EC&PID\_A852**

**FCCID** **TX2-RTL8852BE**

**ICID** **6317A-RTL8852BE**

**Chip1** **Realtek RTL8852BE**

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**OUI:** none specified

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**Antenna** **MHF4**

**Connection**

**MIMO status** **2x2:2**

**Wireless**  
**Standards** **IEEE 802.11a/b/g/n/ac/ax**

<b>802.11ax</b>	up to <b>574/1148 Mbps</b>
<b>802.11ac</b>	up to <b>867 Mbps</b>
<b>802.11n</b>	up to <b>300/300 Mbps</b>
<b>802.11g</b>	up to <b>54 Mbps</b>
<b>802.11b</b>	up to <b>11 Mbps</b>
<b>802.11a</b>	up to <b>54 Mbps</b>
<b>Operating Frequency</b>	<b>2.4 or 5 GHz</b>

**Other**

**Flags:**

Wi-Fi 6, WPA3, MU-MIMO, HE80, Bluetooth 5.0

**UART** has accessible **UART**

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**Probable Linux driver**

**rtw89 (5.16-rc+)**

**(see also passys )**

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**Windows driver**

***Win 10 (64-bits)***

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**Retail**

**Availability** reference design

**FCC approval date** 13 August 2021

For a list of all currently documented **Realtek** device with specifications, see [Realtek](#).

- **1201** Mbps - 2SS 5GHz 802.11ax (80MHz chan., 1024-QAM)
- **574** Mbps - 2SS 2.4GHz 802.11ax (40MHz chan., 256-QAM) = **AX1800 class**

## Overview

- Realtek#ax RTL8852BE - PCIe 2.0  
(WLAN)/USB 2.0 (BT)/UART  
802.11abgn+ac+ax 2T2R (2x2:2), Wi-Fi 6, MU-MIMO, BT 5.0
- Realtek RTL8852BE Combo Module  
(Wi-Fi 6, AX1800, 2T2R 2.4/5GHz, BT)  
*802.11ax RTL8852BE Combo Module*  
(NGFF 2230, PCIe/USB, MHF4)  
FCC ID: TX2-RTL8852BE (2021-08-13) • IC ID: 6317A-RTL8852BE

## Drivers

- PCI ID: 10ec:a852 on station-drivers  
(DH )

```
Realtek RTL8852AE Wireless  
LAN WiFi 6 PCI-E NIC
```

Realtek RTL8852BE Wireless  
LAN WiFi 6 PCI-E NIC

Codes IDs:

%RTL8852ae.DeviceDesc% =  
RTL8852ae.ndi

; ; Realtek demoboard

PCI\VEN\_10EC&DEV\_8852&SUBS  
YS\_885210EC ; ; RTL8852AE  
[10ec:8852/10ec:8852]

PCI\VEN\_10EC&DEV\_A852&SUBS  
YS\_A85210EC ; ; RTL8852AE-VS  
[10ec:a852/10ec:a852]  
; ; ASUS

PCI\VEN\_10EC&DEV\_8852&SUBS  
YS\_081111AD ; ;Lite-On  
[10ec:8852/11ad:0811]

PCI\VEN\_10EC&DEV\_8852&SUBS  
YS\_47301A3B ; ;AzureWave  
[10ec:8852/1a3b:4730]

PCI\VEN\_10EC&DEV\_8852&SUBS  
YS\_50601A3B ; ;AzureWave,  
NGFF 1216  
[10ec:8852/1a3b:5060]  
; ;Azurewave

PCI\VEN\_10EC&DEV\_8852&SUBS  
YS\_47311A3B  
[10ec:8852/1a3b:4731]

PCI\VEN\_10EC&DEV\_8852&SUBS  
YS\_50611A3B ; ;NGFF 1216  
[10ec:8852/1a3b:5061]

PCI\VEN\_10EC&DEV\_8852&SUBS  
YS\_52201A3B ; ;RTL8852AE-  
VR, NGFF 1216  
[10ec:8852/1a3b:5220]  
; ;HP

PCI\VEN\_10EC&DEV\_A852&SUBS  
YS\_1852103C ; ;RTL8852AE-  
VS, 1T1R  
[10ec:a852/103c:1852]

PCI\VEN\_10EC&DEV\_8852&SUBS



YS\_2852103C ; ;RTL8852AE,  
2T2R, ES only  
[10ec:8852/103c:2852]

PCI\VEN\_10EC&DEV\_A852&SUBS  
YS\_3852103C ; ;RTL8852AE-  
VS, 1T2R  
[10ec:a852/103c:3852]

PCI\VEN\_10EC&DEV\_8852&SUBS  
YS\_88E1103C ; ;RTL8852AE,  
2T2R, MP  
[10ec:8852/103c:88e1]

PCI\VEN\_10EC&DEV\_A85A&SUBS  
YS\_88E2103C ; ;RTL8852AE-  
VT, 1T2R, MP

[10ec:a852/103c:88e2]

PCI\VEN\_10EC&DEV\_A85A&SUBS  
YS\_A85A103C ; ;RTL8852AE-  
VT, 1T2R, ES only

[10ec:a852/103c:a85a]

; ;AMD

PCI\VEN\_10EC&DEV\_8852&SUBS  
YS\_A88510EC

[10ec:8852/10ec:a885]

; ;ACER

PCI\VEN\_10EC&DEV\_8852&SUBS  
YS\_A88610EC

[10ec:8852/10ec:a886]

; ;DELL

PCI\VEN\_10EC&DEV\_8852&SUBS

YS\_A88710EC

[10ec:8852/10ec:a887]

; ; Fujitsu

PCI\VEN\_10EC&DEV\_8852&SUBS

YS\_B85210EC

[10ec:8852/10ec:b852]

; ; Dynabook

PCI\VEN\_10EC&DEV\_8852&SUBS

YS\_C85210EC

[10ec:8852/10ec:c852]

; ; NEC

PCI\VEN\_10EC&DEV\_8852&SUBS

YS\_E85210EC

[10ec:8852/10ec:e852]

; ;Huawei

PCI\VEN\_10EC&DEV\_8852&SUBS

YS\_24781058

[10ec:8852/1058:2478]

; ;Lenovo

PCI\VEN\_10EC&DEV\_8852&SUBS

YS\_485217AA

[10ec:8852/17aa:4852]

; ;Xiaomi

PCI\VEN\_10EC&DEV\_8852&SUBS

YS\_C8251D3E

[10ec:8852/1d3e:c825]

# See also

## **Realtek reference design** •

### **Realtek FCC ID - TX2**

- **Realtek RTL8852BE Combo Module**  
(Wi-Fi 6, AX1800, 2T2R 2.4/5GHz, BT)  
*802.11ax RTL8852BE Combo Module*  
(NGFF 2230, PCIe/USB, MHF4)  
FCC ID: TX2-RTL8852BE (2021-08-13) • IC ID: 6317A-RTL8852BE
- **Realtek RTL8852AE Combo Module**  
(Wi-Fi 6, AX1800, 2T2R 2.4/5GHz, BT)  
*802.11ax RTL8852AE Combo Module*  
(NGFF 2230, PCIe/USB, MHF4)  
FCC ID: TX2-RTL8852AE (2020-10-16) • IC ID: 6317A-RTL8852AE

- Realtek RTL8822C Combo Module  
(Wi-Fi 5, AC1200, 2T2R 2.4/5GHz, BT)  
*802.11abgn/ac RTL8822C Combo Module (SD)*  
FCC ID: TX2-RTL8822C (2020-04-30)
- Realtek RTL8822CE Combo Module  
*802.11abgn/ac RTL8822CE Combo Module*  
FCC ID: TX2-RTL8822CE (2018-11-02)  
IC ID: 6317A-RTL8822CE, 3.3V/1.5A
- Realtek RTL8822BE Combo Module  
(10ec:b822)  
*802.11abgn/ac RTL8822BE Combo Module*

FCC ID: TX2-RTL8822BE (2016-08-29)

- Realtek RTL8821CE Combo Module  
(10ec:c821)

*802.11abgn/ac RTL8821CE Combo Module*

FCC ID: TX2-RTL8821CE (2016-12-12)

- Realtek RTL8821AE Combo Module  
(10ec:8821)

*802.11abgn/ac RTL8821AE Combo Module*

FCC ID: TX2-RTL8821AE (2013-07-10)

- Realtek RTL8821AU Combo Module  
*802.11abgn/ac RTL8821AU Combo*

*Module*

# FCC ID: TX2-RTL8821AU (2014-03-06)

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Last edited 12 minutes ago by DarkShadow

## Facts

... more about "[Realtek RTL8852BE Combo Module](#)"

[RDF feed](#)

<a href="#">Antenna connector</a>	MHF4 +
<a href="#">Availability</a>	reference design +
<a href="#">Brand</a>	Realtek +
<a href="#">Chip1 brand</a>	Realtek +
<a href="#">Chip1 full</a>	Realtek;RTL8852BE; +
<a href="#">Chip1 model</a>	RTL8852BE +
<a href="#">Device ID</a>	a852 +
<a href="#">FCC ID</a>	TX2-RTL8852BE +
<a href="#">FCC approval date</a>	August 13, 2021 +
<a href="#">FCC approval year</a>	2021 +



Flags	Wi-Fi 6 + , WPA3 + , MU-MIMO + , HE80 + and Bluetooth 5.0 +
Form factor	2230 +
Global prefix	802dot11 wireless adapter +
Global type	802dot11 wireless adapter, USB +
Has FCC ID	Yes +
Has accessible UART	Yes +
Has tag line	802.11ax RTL8852BE Combo Module +
IC ID	6317A-RTL8852BE +
Interface	USB +
Interface connector type	M.2 2.0 (Key A/E) +
MIMO config	2x2:2 +
Maximum bus version supported	2.0 +
Model	RTL8852BE +
Page name	Realtek RTL8852BE Combo Module +
Probable Linux driver	rtw89 +
RX chains	2 +
S streams	2 +
Submodel	Combo Module +
Supported 802dot11 protocols	abgn+ac+ax +
TX chains	2 +
Vendor ID	10ec +
Wireless class	AX1800 +

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