

TCB

**GRANT OF EQUIPMENT
AUTHORIZATION**

TCB

**Certification
Issued Under the Authority of the
Federal Communications Commission
By:**

**UL Verification Services Inc.
(formerly UL CCS)
47173 Benicia Street
Fremont, CA 94538**

**Date of Grant: 05/29/2015
Application Dated: 05/29/2015**

**Qualcomm Atheros, Inc.
1700 Technology Dr
San Jose, CA 95110**

Attention: Paul Guckian , Vice President, Regulatory Engineering

NOT TRANSFERABLE

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE,
and is VALID ONLY for the equipment identified hereon for use under the
Commission's Rules and Regulations listed below.

FCC IDENTIFIER: PPD-QCNFA324
Name of Grantee: Qualcomm Atheros, Inc.
Equipment Class: Part 15 Spread Spectrum Transmitter
Notes: 2x2 802.11A/B/G/N/AC WiFi +
Bluetooth Module
Modular Type: Single Modular

<u>Grant Notes</u>	<u>FCC Rule Parts</u>	<u>Frequency Range (MHZ)</u>	<u>Output Watts</u>	<u>Frequency Tolerance</u>	<u>Emission Designator</u>
CC	15C	2402.0 - 2480.0	0.015		

Class II permissive change filing for minor PCB layout, chip version and BOM change as documented in this filing.

Modular Approval. Output power is conducted. This module may be installed only by the OEM or an OEM integrator. This transmitter has been approved for use in mobile RF exposure category configurations with the antenna(s) installed to provide a separation distance of at least 20 cm from all persons. The antenna(s) used for this transmitter must not be collocated or operating in conjunction with any other antenna or transmitter within a host device, except in accordance with FCC multitransmitter product procedures. Grantee must coordinate with OEM integrators to determine applicable host configurations to ensure RF exposure compliance, including simultaneous transmission.

CC: This device is certified pursuant to two different Part 15 rules sections.

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Commission's Rules and Regulations listed below.

FCC IDENTIFIER: PPD-QCNFA324
Name of Grantee: Qualcomm Atheros, Inc.
Equipment Class: Digital Transmission System
Notes: 2x2 802.11A/B/G/N/AC WiFi +
Bluetooth Module
Modular Type: Single Modular

Table with 5 columns: Grant Notes, FCC Rule Parts, Frequency Range (MHZ), Output Watts, Frequency Tolerance, Emission Designator. Rows include CC MO with FCC Rule Parts 15C and frequency ranges like 2402.0 - 2480.0.

Class II permissive change filing for minor PCB layout, chip version and BOM
change as documented in this filing.

Modular Approval. Output power listed is maximum combined conducted. This
device supports 20, and 40 MHz bandwidths. This module may be installed only
by the OEM or an OEM integrator. This transmitter has been approved for use in
mobile RF exposure category configurations with the antenna(s) installed to
provide a separation distance of at least 20 cm from all persons. The antenna(s)
used for this transmitter must not be collocated or operating in conjunction with
any other antenna or transmitter within a host device, except in accordance with
FCC multi-transmitter product procedures. Grantee must coordinate with OEM
integrators to determine applicable host configurations to ensure RF exposure
compliance, including simultaneous transmission.

CC: This device is certified pursuant to two different Part 15 rules sections.

MO: This Multiple Input Multiple Output (MIMO) device was evaluated for multiple transmitted signals as indicated in
the filing.

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Attention: Paul Guckian , Vice President, Regulatory Engineering

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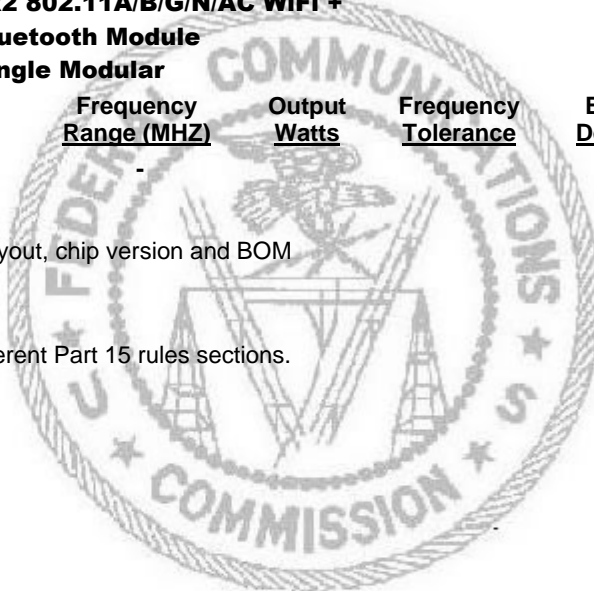
EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE,
and is VALID ONLY for the equipment identified hereon for use under the
Commission's Rules and Regulations listed below.

FCC IDENTIFIER: PPD-QCNFA324
Name of Grantee: Qualcomm Atheros, Inc.
Equipment Class: Part 15 Class B Computing Device
Peripheral
Notes: 2x2 802.11A/B/G/N/AC WiFi +
Bluetooth Module
Modular Type: Single Modular

<u>Grant Notes</u>	<u>FCC Rule Parts</u>	<u>Frequency Range (MHZ)</u>	<u>Output Watts</u>	<u>Frequency Tolerance</u>	<u>Emission Designator</u>
CC	15B				

Class II permissive change filing for minor PCB layout, chip version and BOM change as documented in this filing.

CC: This device is certified pursuant to two different Part 15 rules sections.



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Commission's Rules and Regulations listed below.

FCC IDENTIFIER: PPD-QCNFA324
Name of Grantee: Qualcomm Atheros, Inc.
Equipment Class: Unlicensed National Information
Infrastructure TX
Notes: 2x2 802.11A/B/G/N/AC WiFi +
Bluetooth Module
Modular Type: Single Modular

Table with 5 columns: Grant Notes, FCC Rule Parts, Frequency Range (MHZ), Output Watts, Frequency Tolerance, Emission Designator. Rows include 38 CC MO with various frequency ranges and power outputs.

Class II permissive change filing for minor PCB layout, chip version and BOM
change as documented in this filing.

Modular Approval. Output power listed is maximum combined conducted. This
device supports 20, 40, and 80 MHz bandwidths. This module may be installed
only by the OEM or an OEM integrator. This transmitter has been approved for
use in mobile RF exposure category configurations with the antenna(s) installed to
provide a separation distance of at least 20 cm from all persons. This device
supports client-only operating modes in the 5150-5350 MHz, 5470-5725, and
5825-5850 MHz bands. The antenna(s) used for this transmitter must not be
collocated or operating in conjunction with any other antenna or transmitter within
a host device, except in accordance with FCC multi-transmitter product
procedures. Grantee must coordinate with OEM integrators to determine
applicable host configurations to ensure RF exposure compliance, including
simultaneous transmission.

38: This device has shown compliance, in all grant-listed U-NII sub-bands, with the new rules for U-NII devices
adopted under Docket No. 13-49 and may be marketed, manufactured, installed or imported after the June 1,
2016 transition deadline.

CC: This device is certified pursuant to two different Part 15 rules sections.

MO: This Multiple Input Multiple Output (MIMO) device was evaluated for multiple transmitted signals as indicated in the filing.

