TCB

GRANT OF EQUIPMENT AUTHORIZATION

Certification
Issued Under the Authority of the
Federal Communications Commission

By:

Bay Area Compliance Laboratory Corp.
1274 Anvilwood Avenue
Sunnyvale, CA 94089

Date of Grant: 10/19/2018
Application Dated: 10/19/2018

ESPRESSIF SYSTEMS (SHANGHAI) PTE LTD
456 Bibo Road Room A201
Shanghai, 201203
China

Attention: Minjie Cai

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: 2AC7Z-WROOM32SE
Name of Grantee: ESPRESSIF SYSTEMS (SHANGHAI) PTE LTD
Equipment Class: Part 15 Spread Spectrum Transmitter
Notes: Wi-Fi & Bluetooth Internet of Things Module
Modular Type: Single Modular

<table>
<thead>
<tr>
<th>Grant Notes</th>
<th>FCC Rule Parts</th>
<th>Frequency Range (MHZ)</th>
<th>Output Watts</th>
<th>Frequency Tolerance</th>
<th>Emission Designator</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>15C</td>
<td>2402.0 - 2480.0</td>
<td>0.002</td>
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Modular approval. Output power listed is conducted. This grant is valid only when the module
is sold to OEM or OEM integrators. Modular approval for use as a module in mobile-only RF
exposure conditions. Only those antenna(s) tested with the device or similar antenna(s) with
equal or lesser gain maybe used with this transmitter. The antenna(s) used for this transmitter
must be installed to provide a separation distance of at least 20 cm from all persons and not
be co-located with any other transmitters, except in accordance with FCC multi-transmitter
product procedures. Compliance of this device in all final host configurations is the
responsibility of the Grantee. End-users must be provided with specific information required to
satisfy RF exposure compliance for the final host device. Installation of this device into
portable RF Exposure category host devices requires the submission of a Class II permissive
change or new application.