



**TCB**

GRANT OF EQUIPMENT  
AUTHORIZATION  
Certification  
Issued Under the Authority of the  
Federal Communications Commission  
By:

**TCB**

Telefication B.V.  
Edisonstraat 12a  
Zevenaar, NL-6902 PK  
Netherlands

Date of Grant: 01/22/2018

Application  
Dated: 01/17/2018

**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-ESP32WROOM32U  
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

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Emission Tolerance Designator
	15C	2402.0 - 2480.0	0.002	

Single Modular Approval. Output power listed is conducted. This grant is valid only when the module is sold to OEM integrators and must be installed by the OEM or OEM integrators. The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter, except in accordance with FCC multi-transmitter product guidelines. End-users may not be provided with the module installation instructions. OEM integrators and end-users must be provided with transmitter operating conditions for satisfying RF exposure compliance.

Certificate No.: 182180021/AA/00	Mark Chung Product Assessor	
-------------------------------------	--------------------------------	---