

<b>TsingLan Technology (Shenzhen) Co., Ltd</b>
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## RDR255 PRE-APPROVAL GUIDANCE CHECKLIST

Date:

To:

Federal Communications Commission  
Authorization and Evaluation Division  
7435 Oakland Mills Road  
Columbia, MD

FCC ID: 2BD97HC2

**Subjects: Part 15.255 RDR255 Pre-Approval Guidance Checklist v01**

Requirements	Explanation
1. Identify the specific rule section under which certification is being sought	applying under §15.255(c)(2)(iii)(A)
2. Describe the radar modulation (e.g., pulsed, FMCW, other)	<b>FMCW</b>
3. State the intended use case(s), e.g., unmanned aircraft, indoor or outdoor, vehicular in-cabin, etc.	indoor
4. If applying under §15.255(c)(2): –Describe how conducted output power is determined	By calculation, conducted Power = EIRP - Antenna Gain
5. If applying under §15.255(c)(2)(v) for operation in the 60.0-61.5 GHz ISM band –Demonstrate that the transmitter occupied bandwidth (OBW) is wholly contained within the 61.0-61.5 GHz band	N/A
6. If applying under §15.255(b)(3) for operation onboard unmanned aircraft –Show that the transmitter OBW is contained within the 60-64 GHz band segment –Describe how altitude restriction will	N/A

<p>be satisfied</p> <p>–Provide time domain data that demonstrates compliance to the off-time requirement</p>	
<p>7. If applying under §15.255(c)(2)(i) for operation over 57.0-59.4 GHz</p> <p>–Show that the transmitter OBW is contained within the 57.0-59.4 GHz band segment</p> <p>–State whether usage will be limited to outdoor or indoor only, and if so, describe how will such limitations be ensured</p>	N/A
<p>8. If applying under §15.255(c)(2)(ii) for operation over 57.0-61.56 GHz</p> <p>–Show that the transmitter OBW is contained within the 57.0-61.56 GHz band segment</p>	N/A
<p>9. If applying under §15.255(c)(2)(iii)(A) for operation over 57.0-64.0 GHz</p> <p>–Show that transmitter OBW is contained within 57-64 GHz band segment</p> <p>–Demonstrate with time domain data plots that the off-time requirement is satisfied</p>	<p>applying under §15.255(c)(2)(iii)(A)</p> <p>-Operating at 60.4909-62.5162GHz within 57-64 GHz band</p> <p>-Within 33ms, the off-time is 28.90ms, greater than 25.5ms</p>
<p>10. If applying under §15.255(c)(2)(iii)(B) for operation over 57.0-64.0 GHz</p> <p>–Show that transmitter OBW is contained within 57-64 GHz band segment</p> <p>–Explain how ‘fixed’ requirement is satisfied and maintained (if applicable)</p> <p>–Explain the intended vehicle application and how the device will be limited to vehicular use (if applicable)</p> <p>–Demonstrate with time domain data plots that the specified off-time requirement has been satisfied</p>	N/A
<p>11. If applying under §15.255(c)(3) for pulsed radar operation over 57-64 GHz</p>	N/A

–Show that transmitter OBW is contained within 57-64 GHz –Specify the maximum pulse duration and provide supporting time domain data –Provide time domain data plot that demonstrates the maximum duty cycle in any 3 $\mu$ s time window	
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If you have any questions, please feel free to contact us at the address shown below

Sincerely

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