

## **Integration Instructions** - User Manual

### **SimpleLink Wi-Fi CC3135MOD Dual-Band Network Processor Module**

- User Manual 1 (CC3135MOD OEM Integrator's Guide) reference
- User Manual 2 (datasheet) reference

**This is the integration instructions for host product manufacturers to use when integrating the module in a host product.**

#### **2.1 General**

**This integration instructions describes the integration procedure per Sec. 2.2 to 2.12 of KDB 996369 D03.**

#### **2.2 List of applicable FCC rules**

**This device complies with below part 15 of the FCC Rules.**

**Part 15 Subpart C**

**Part 15 Subpart E**

#### **2.3 Summarize the specific operational use conditions**

This device is under the following conditions:

- The antenna must be installed so 20 cm of space is maintained between the antenna and the users.
- The transmitter module may not be colocated with any other transmitter of antenna.
- To comply with FCC regulations limiting maximum RF output power and human exposure to RF radiation, the maximum antenna gain including cable loss in a mobile exposure condition must not exceed:
  - +2.5 dBi in WLAN 2.4 GHz
  - +4.5 dBi in WLAN 5 GHz

#### **2.4 Limited Modular procedures : Not Applicable**

#### **2.5 Trace antenna designs**

**See Section 9.2 of User Manual\_2.**

## 2.6 RF Exposure considerations

Application conditions: Mobile – 20 cm from a person's body (Portable for specific host device)

/ Portable – 20cm from a person's body

Modules can only be used in a host for the conditions that it was granted for. To be used in any other way than granted, such as mobile to portable or with other transmitters simultaneously, requires additional evaluation, testing, or testing and Class 2 permissive change.

The following statements must be described on the user manual of the host device of this module;

[for FCC]

FCC RF Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

## 2.7 Antennas

[for FCC]

The device is designed to use the antennas listed below. Do not modify the antenna or any other part of the module. Any modifications will invalidate the modular certifications and require new approvals for the host system.

| Antenna Information |              |              |                   |              |            |
|---------------------|--------------|--------------|-------------------|--------------|------------|
|                     | Brand        | Antenna Type | Model             | 2.4-GHz Gain | 5-GHz Gain |
| 1                   | Pulse        | Chip         | W3078             | 1.7          | 4.3        |
| 2                   | Yageo        |              | ANT5320LL04R2455A | 2.17         | 3.51       |
| 3                   | Ethertronics |              | M830520           | 1            | 2.6        |
| 4                   | Laird        | PCB          | 1000423           | -0.6         | 4.5        |
| 5                   |              |              | CAF94504          | 2            | 4          |
| 6                   |              |              | CAF94505          | 2            | 4          |
| 7                   | LSR          | Dipole       | 001-0012          | 2            | 2          |
| 8                   |              |              | 080-0013          | 2            | 2          |
| 9                   |              |              | 080-0014          | 2            | 2          |
| 10                  |              | PIFA         | 001-0016          | 2.5          | 3          |
| 11                  |              |              | 001-0021          | 2.5          | 3          |

## 2.8 Label and compliance information

The following information must be indicated on the host device of this module;

[for FCC]

|                                |
|--------------------------------|
| Contains FCC ID: TQ3-CC3135MOD |
|--------------------------------|

## 2.9 Information on test mode and additional testing requirements : Not Applicable

This module has not been evaluated or approved for simultaneous transmission as it is impossible to determine the exact multi-transmission scenario that a host manufacturer may choose.

## 2.10 Additional testing, Part 15 Subpart B disclaimer

The modular transmitter is only FCC authorized for the specific rule parts (FCC Part 15.247 and Part 15.407) listed on the grant, and the host product manufacturer is responsible for compliance to any other FCC rules that apply to the host not covered by the modular transmitter grant of certification.

## 2.11 Note EMI Considerations

We recommend to use "best practice" RF design engineering testing and evaluation in case non-linear interactions generate additional non-compliant limits due to module placement to host components or properties.

The host manufacturer is responsible for ensuring compliance with the applicable FCC rules for the transmitters operating individually and simultaneously. This includes compliance for the summation of all emissions from all outputs occupying the same or overlapping frequency ranges, as defined by the applicable rules.

## 2.12 How to make changes

Only the grantee is permitted to make permissive changes. Please contact us at E-mail.

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