

**To the FCC or FCC TCB handling this application**

Hereby we,

Company name (grantee) Compex Systems Pte Ltd  
 Address 135 Joo Seng Road, #08-01 M Industrial Building, Singapore 368363  
 City / ZIP / State / Country Singapore

request **limited modular approval** for the certification of our equipment within this application, identified by:

FCC ID: TK4WLE350N5-25H

The table below contains the justification for modular approval of this equipment:

Requirement per 15.212 and KDB 996369 D01 Module Certification Guide v01r03	Explanation from grantee (do <u>not</u> write yes / no, but <u>explain</u> why it complies / how it is achieved)
1. The modular transmitter must have its own RF shielding.	The radio portion of this module has been shielded. Please see exhibition External Photo.
2. The modular transmitter must have buffered modulation/data inputs (if such inputs are provided) to ensure that the module will comply with Part 15 requirements under conditions of excessive data rates or over-modulation.	The EUT has buffered data inputs, it is integrated in chip AR9590/AR9580
3. The modular transmitter must have its own power supply regulation.	The module does not have its own power supply regulation by 3.3Vdc, the module must be supplied by a regulated power source via miniPCIe interface.
4. The modular transmitter must comply with the antenna requirements of Section 15.203 and 15.204(c). The antenna must either be permanently attached or employ a "unique" antenna coupler (at all connections between the module and the antenna, including the cable)..	The EUT uses external antennas and some antennas in the filing use non-specific RF connectors and RF adapter cables, therefore professional installation is required and informed in the installation/user manual.
5. The modular transmitter must be tested in a stand-alone configuration, i.e., the module must not be inside another device during testing. This is intended to demonstrate that the module is capable of complying with Part 15 emission limits regardless of the device into which it is eventually installed.	The EUT was tested in a stand-alone configuration via a mini PCI interface to test kit. please see section photographs of test configuration in the test report, the EUT was plugged in this test kit.
6. The modular transmitter must be labeled with its own FCC ID number, and, if the FCC ID is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following: "Contains Transmitter Module FCC ID: XYZMODEL1" or "Contains FCC ID: XYZMODEL1." Any similar wording that expresses the same meaning may be used. The Grantee may either provide such a label, an example of which must be included in the application for equipment authorization, or, must provide adequate instructions along with the module which explain this requirement. In the latter case, a copy of these instructions must be included in the application for equipment authorization.	FCC ID is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. please see exhibition label sample for the FCC ID of this module. And also in the exhibition Users Manual, there are instructions give to the OEM on how to label the end product.
7. The modular transmitter must comply with any specific rule or operating requirements applicable to the transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements. A copy of these instructions must be included in the application for equipment authorization. For example, there are very strict operational and timing requirements that must be met before a transmitter is authorized for operation under Section 15.231. For instance, data transmission is prohibited, except for operation under Section 15.231(e), in which case there are separate field strength level and timing requirements. Compliance with these requirements must be assured.	The integration manual addresses the limitations and additional responsibilities of the integrator.
8. The modular transmitter must comply with any applicable RF exposure requirements. For example, FCC Rules in Sections 2.1091, 2.1093 and specific Sections of Part 15, including 15.319(i), 15.407(f), 15.253(f) and 15.255(g), require that Unlicensed PCS, UNII and millimeter wave devices perform routine environmental evaluation for RF Exposure to demonstrate compliance. In addition, spread spectrum transmitters operating under Section 15.247 are required to address RF Exposure compliance in accordance with Section 15.247(b)(4). Modular transmitters approved under other Sections of Part 15, when necessary, may also need to address certain RF Exposure concerns, typically by providing specific installation and operating instructions for users, installers and other interested parties to ensure compliance.	RF exposure requirement can be fulfilled only for mobile configuration.

**Attestation** (by grantee)

City and Country:	Date:	Name: (this must be a person)	Function:	Signature: (or official company stamp)
Singapore	2013/05/16	Yaw Thiam Teng	R&D Software Manager	