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## Cover letter: Module types

To Whom It May Concern:

We certify that the module types listed in Table 1 that use J01 and T01 variants of Jennic's JN5139 silicon have identical radio parameters to the 001 and Z01 modules listed in the submitted module user manual. The 001 and Z01 modules use identical silicon, one containing an IEEE802.15.4 stack, the other a ZigBee stack.

The J01 and T01 are custom variants of the JN5139 device that use the same die. The difference between them is that access to certain regions of the ROM is restricted in the J01. The regions where access is restricted contain application and network layer software functions - they do not contain any low-level radio access functions. Therefore, all radio parameters are common on all listed devices. The control of the radio is through a set of common functions available on the J01, T01, 001 and Z01 devices. From an RF perspective, all the devices are identical.

In addition, some modules are fitted with 1Mbit external flash and others are fitted with 4 Mbit external flash, this also has no effect on RF parameters.

Part No.	Silicon Variant	Description	ROM	Flash	FCC ID
JN5139-001-M00	JN5139-001	Standard power module, integrated antenna	Released	1 MBit	TYOJN5139M0
JN5139-Z01-M00	JN5139-Z01	Standard power module, integrated antenna	Released	1 MBit	TYOJN5139M0
JN5139-T01-C10	JN5139-T01	Standard power module, integrated antenna	Custom	4 MBit	TYOJN5139M0
JN5139-J01-C10	JN5139-J01	Standard power module, integrated antenna	Custom	4 MBit	TYOJN5139M0
JN5139-001-M03	JN5139-001	Standard power module, uFL connector	Released	1 MBit	TYOJN5139M3
JN5139-Z01-M03	JN5139-Z01	Standard power module, uFL connector	Released	1 MBit	TYOJN5139M3
JN5139-T01-C13	JN5139-T01	Standard power module, uFL connector	Custom	4 MBit	TYOJN5139M3
JN5139-J01-C13	JN5139-J01	Standard power module, uFL connector	Custom	4 MBit	TYOJN5139M3
JN5139-001-M04	JN5139-001	High power module, uFL connector	Released	1 MBit	TYOJN5139M4
JN5139-Z01-M04	JN5139-Z01	High power module, uFL connector	Released	1 MBit	TYOJN5139M4
JN5139-T01-C14	JN5139-T01	High power module, uFL connector	Custom	4 MBit	TYOJN5139M4
JN5139-J01-C14	JN5139-J01	High power module, uFL connector	Custom	4 MBit	TYOJN5139M4

**Table 1: JN5139 Module Types**

Thank you for your attention to these matters.

Yours faithfully

A handwritten signature in black ink, appearing to read "C V Farlow". The signature is written in a cursive, slightly slanted style.

Full Name

Mr Conrad V Farlow

Jennic Ltd