

www.qualcomm.com

Qualcomm Communication Technologies Ltd.

1700 Technology Drive San

Jose, CA 95110t +1

408.773.5200

f +1 408.773.9940



Differentiation Explanation Letter Between QCA9377-3 and QCA1023-0

Dear Quectel Customer,

The letter is written to explain the difference between QCA9377-3 (MCN: QCA-9377-3-115WLNSP-TR/SR/HR-03-0) and QCA1023-0 (MCN: QCA-1023-0-115WLNSP-TR/SR/HR-03-0).

QCA9377-3 and QCA1023-0 are exactly pin to pin products derived from same silicon design but with different function set. QCA9377-3 is superset of Tufello contains all features it can support but QCA1023 is subset of Tufello to disable MU-MIMO and TxBF client mode for differentiation by silicon integrated OTP programming. As a result, there is no design difference from schematic and layout to other BOM related to the design. It is guaranteed the functionality other than difference mentioned above and performance both throughput and RF output/input are identical between QCA9377-3 and QCA1023-0.

Qualcomm is highly appreciated for the great cooperation between Quectel and Qualcomm and expects we will have a smooth manufacturing with best solution from Qualcomm.

We **Quectel Wireless Solutions Co., Ltd** declare the following models.

Product Name: Wi-Fi & BT Module

Model Number: FC20

The difference between R1.0 and R1.1 is as below

The RF chip is different, for further description please refer to the explanation letter of the difference between QCA9377-3 and QCA1023-0. FC20 is a Wi-Fi & BT Module with single antenna and doesn't support MIMO TXBF function.

Your assistance on this matter is highly appreciated.

Sincerely,

Name: Jean Hu *Jean Hu*

Title: Certification Section