

Document No	TX-260123-06		
Model	TX-M2830		
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Subject	Antenna Installation and Compliance Statement		

1. Introduction

This statement is to certify that the TX-M2830 wireless module is designed and manufactured in full compliance with the antenna requirements specified in FCC Part 15.203. The regulation stipulates that no antenna other than that furnished by the responsible party shall be used with the device to prevent unauthorized modifications.

2. Technical Specification of Antenna Connection

The TX-M2830 utilizes a standard U.FL connector for the RF interface.
 According to the measured data in the antenna specification, the peak gain of the antenna is -5.14 dBi at 2402 MHz.
 Antenna Type: External / Module Antenna
 Connection Method: U.FL Connector
 Peak Gain: 4.38 dBi (2400.000 MHz)

3. Implementation of Permanent Attachment

To ensure that the device meets the "permanently attached" criteria of FCC Part 15.203, Techxen implements the following technical measures during the mass production process:
 Permanent Bonding: An industrial-grade permanent adhesive is applied to the U.FL connector interface after initial assembly.
 Tamper Resistance: Once the adhesive is cured, the antenna cannot be disconnected or replaced by the end-user without causing permanent physical damage to the module’s RF circuit or the antenna assembly.
 Manufacturing Control: This process is performed strictly at the factory level; therefore, the device is not sold to end-users without the antenna being permanently fixed.

4. Conclusion

We, the undersigned, hereby declare that the TX-M2830 complies with all requirements of FCC Part 15.203 through the use of a permanently bonded connection.
 The end-user will not have access to any means of replacing the antenna with an unauthorized type.

(Signature) 

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