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## FCC 15.203 Declaration Letter to Clarify the connector type

**Product:** Modular Radio (Marketing name: TW-750, HVIN: ASY0750467)

**FCC ID:** 2A6X2-750

**Attestation Date:** May 20, 2026

### 1. Applicability of Section 15.203

This device employs a standard female SMP connector that is externally accessible. Under normal consumer operation, Section 15.203 prohibits such user-accessible standard connectors. However, the **professional-installation exemption** in KDB 353028 D01 §II.A.2.c is invoked because:

- The **equipment is sold exclusively to trained personnel**, military or authorized agencies, **not to the general public**.
- Installation, calibration, and antenna attachment **must be performed by trained professionals** contracted by the licensee.
- **Users are explicitly prohibited** from changing the antenna; the connector is only accessible by trained service personnel.

### 2. Professional Installation Justification

Per KDB 353028 D01 guidance, justify as follows:

1. **Controlled distribution**
  - The radio module is **not sold via retail or mail-order**; it is issued exclusively through **authorised channels** to military or trained agency personnel.
2. **Sophisticated installation requirements**
  - Installation includes verifying field strength, configuring power levels, applying antenna-specific calibration, and ensuring RF exposure compliance in mission-specific configurations—tasks that **require technical training** and are not performed by end users.
3. **Connector access limitation**
  - Although externally located, the connector is ruggedized and access for user swap-out is prohibited by the user manual and physical design to prevent unauthorized antenna attachment.

### 3. Compliance Measures

To meet KDB 353028 and §15.203:

- **Exhibit list of approved antennas** including part numbers, vendor, type, maximum gain, feed-line specs, and matching cable length (only these antennas may be used).
- **Manual statement:**  
*"This device must be professionally installed. Unauthorized antenna attachment or connector access by end users is strictly prohibited."*

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#### 4. Grant Condition Statement (FCC Label/User Manual)

The following verbiage is stated in the user manual:

**“This device must be professionally installed. Only approved antennas listed in this manual are permitted. End-users must not disconnect or replace the antenna connector.”**

**Summary Table**

| Requirement                       | Compliance via Declaration                                                               |
|-----------------------------------|------------------------------------------------------------------------------------------|
| FCC §15.203 standard connector    | Exempted via professional-installation justification                                     |
| KDB 353028 D01 guidance           | Met through controlled distribution, training requirements, connector access limitations |
| Approved Antenna Listing required | Exhibit included listing allowed antennas                                                |
| User/manual statement required    | Included clear prohibition on end-user antenna change                                    |

Sincerely,

Dated: May 20, 2026

Signed by:

*Mike Rudeen*

On behalf of:

*Print name:* Mike Rudeen

*Title:* Project Engineer

*Phone:* (858) 753-1600

*Company name:* TrellisWare Technologies Inc.

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