

Technical Note

RM-RMPMP-0026DOC Rev 01A

TC2 Module Insertion and Extraction

For attention: Production and Assembly Personnel

1. **TC2** Module Handling



Caution: The **TC2** is an ESD (Electrostatic Discharge) sensitive device. Electrostatic charges as high as 4000V readily accumulate on the human body and test equipment and can discharge without detection. Permanent damage may occur to devices subjected to high energy electrostatic discharges. Therefore, proper ESD precautions are recommended prior to and when handling the **TC2** in order to avoid performance degradation or loss of functionality. Appropriate ESD precautions include:

- the wearing of anti-static gloves
- keeping the **TC2** in its original protective packaging as long as possible
- opening original protective packaging only at grounded workstations
- immediately replacing uninstalled modules in their protective packaging
- using workbenches with a static-dissipative surface grounded via a high impedance
- wearing conductive wrist straps grounded via a high impedance
- discharging potentially damaging ESD sources through a high impedance
- limiting direct contact with a module to its exposed ground rim as far as possible

2. **TC2** Module Connectors

Note the positions of the **TC2** connectors **J1**, **J2** and **J3** shown in Figure 1.

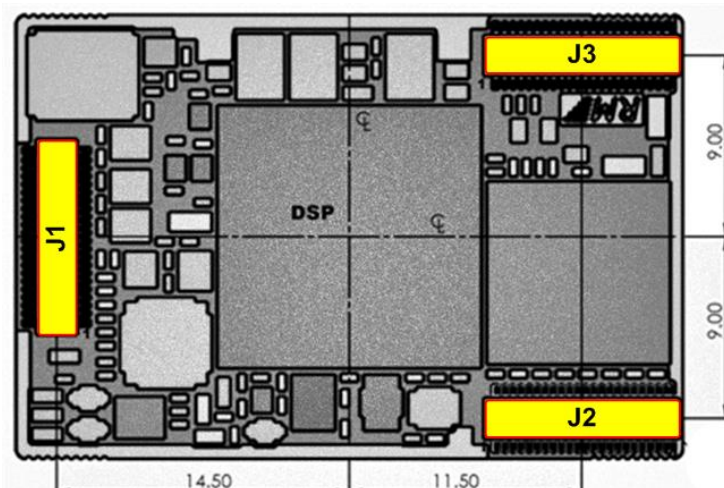


Figure 1: **TC2** Module bottom showing position on connectors **J1**, **J2** and **J3**.

3. **TC2** Module Insertion

Care should be taken when installing the **TC2** in order not to damage the connectors. This is best done by installing the **TC2** as parallel to the Host carrier board as possible. To install, place the module lightly on the Host carrier board mating connectors, feeling for the obvious seating position when all three connectors are aligned. Once aligned, use your two thumbs to press down the **TC2** in a parallel action until the snap can be heard and felt of the connectors mating. Visually inspect to ensure that the module board and host board are parallel and that the **TC2** is properly seated.

4. **TC2** Module Extraction

Special care should be taken when removing the **TC2** in order not to damage the connectors.

Use of the **TC2** Extractor tool is mandatory when unplugging the module. The Extractor tool should be attached to the **TC2** as depicted in Figure 2.

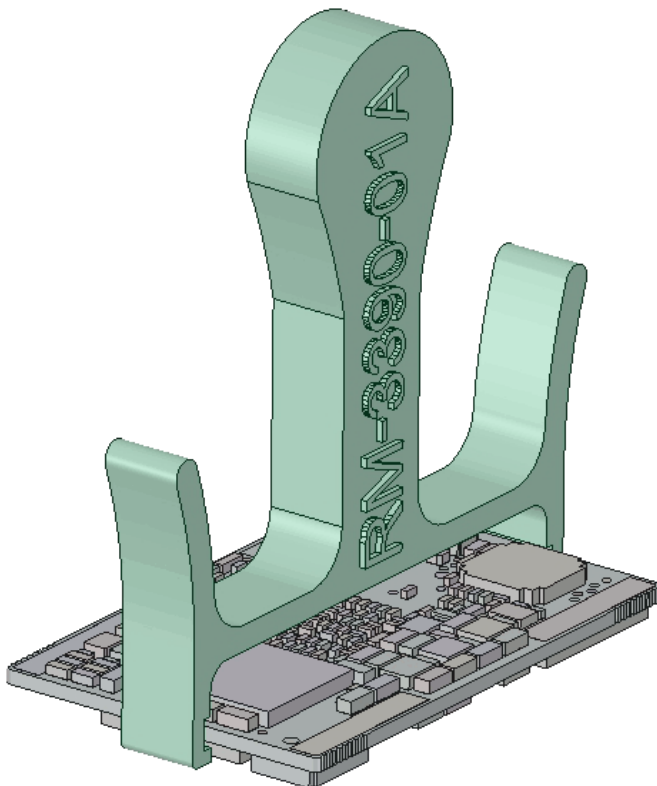


Figure 2: **TC2 Extractor tool attachment position.**

To remove, attach the Extractor tool to the **TC2** by pressing the Extractor tool side tabs, placing the extractor claws in the correct position and releasing the tabs, ensuring that the Extractor tool has properly positioned and gripped the **TC2** module. Pull on the Extractor tool middle tab directly upward to detach the module from the Host carrier card.

If an angled approach is required, the **J1**-end of the module should be disconnected first, with **J2** and **J3** following simultaneously, taking care to keep the module angle to an absolute minimum.