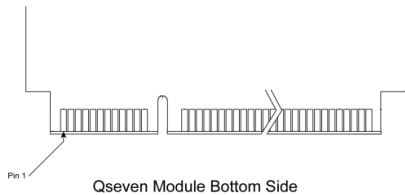
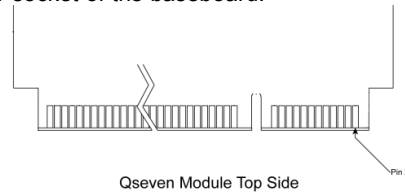


# Q7M310/311 Quick Installation Guide

## Quick Start

The basic procedures required to power on Q7M310/311:

- (1). Require DC +5V power at minimum 2A. Make sure the power is OFF before connecting the Q7M310/311.
- (2). Check to ensure the onboard switch SSW1 is set to default (ON (up position)).
- (3). Attach heatsink to the Q7M310/311, refer to section Installing Thermal Solution.
- (4). Gently insert Q7M310/311 (see image below) into the matching edge connector socket of the baseboard.



- (5). Properly install all necessary peripheral devices such as hard disk, display, keyboard and etc. to the baseboard.
- (6). Firmly attach power supply to the baseboard power connector.
- (7). Turn on the system power.
- (8). Press power button on the baseboard to start Q7M310/311.

## Checklist

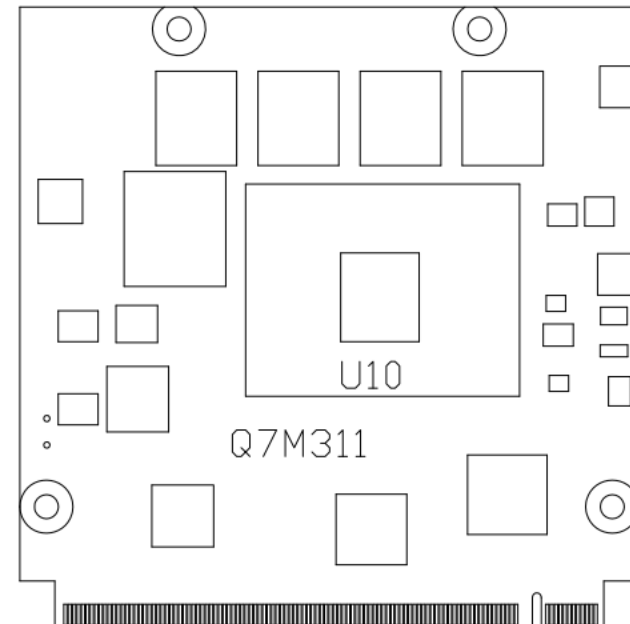
- ✓ Q7M310/311 Board x1
- ✓ Product Information DVD x1
- ✓ Quick Installation Guide x1

**Note:** Please contact your local vendors if any damaged or missing items. DO NOT apply power to the board if there is any damaged component.

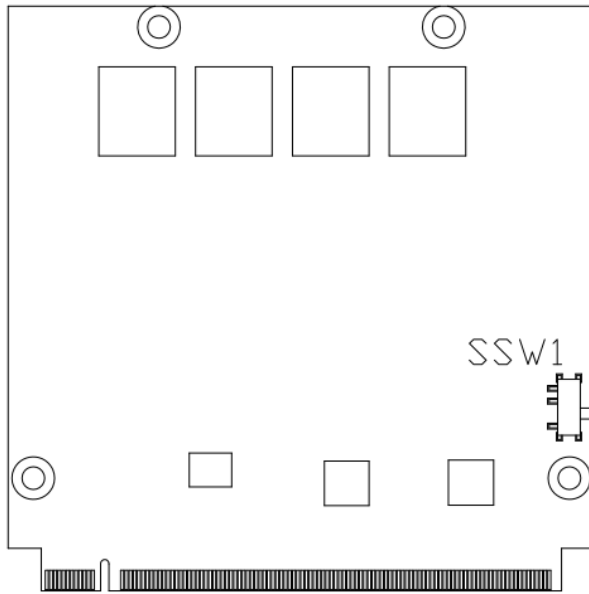
Please refer to the product information DVD for the complete user's manual, drivers and utilities. User's manual and related documents are Acrobat PDF format.

## Module Layout

Form factor: Qseven Specification v2.1



Top View



Bottom View

### Switch Settings

Before applying power to the Q7M310/311, please make sure all of the switches are in factory default positions.

Switch	Description	Setting
SSW1	Auto Power On Default: Enable	ON (Up)

### Installing Thermal Solution

For thermal dissipation, a thermal solution enables the Q7M310/311's components to dissipate heat efficiently. All heat generating components are thermally conducted to the heatsink in order to avoid hot spots. Figure below illustrates how to install the thermal solution on Q7M310/311.

1. There is a protective plastic covering on the thermal pads. This must be removed before the heatsink can be mounted.
2. Each heatsink is designed for a specific Q7M module. The thermal pads on the heatsink are designed to make contact with the necessary components on the Q7M module. When mounting the heatsink you must make sure that the thermal pads on the heatsink make complete contact (no space between thermal pad and component) with the corresponding components on the Q7M module. This is especially critical for Q7M modules that have higher CPU speeds (for example 1.46GHz or more) to ensure that the heatsink acts as a proper thermal interface for cooling solutions.
3. This CPU module has four assembly holes for installing heatsink plate. Use the four screws to secure the heatsink plate to the Q7M310/311. Be careful not to over-tighten the screws.

