



Product Change Notification (PCN) Number: PCN-2405-001 Rev.2
Issue Date: 17-May-2024
Revision Date: 17-Aug-2024

Enhanced Security Features for Ti35/Ti60F225 & Ti35/Ti60F100S3F2 Devices

Dear Efinix Customer,

Efinix, Inc. is announcing enhanced security features for Titanium Ti35/Ti60F225 and Ti35/Ti60F100S3F2 devices.

Change Description:

Ti35/Ti60F225 and Ti35/Ti60F100S3F2 devices are being enhanced to enable powering of the fuse programming block through a new pin "VQPS" in the package. With this change, the user can power up or power down the fuse programming block according to their requirements. This change will make the Ti35/Ti60 fuse programming process consistent with the other devices in the Titanium family.

In the new package the pinout, the following ground pin, "GND" in the previous package, is replaced with the "VQPS" function in the new devices:

- Ti35/Ti60F225 – Pin G6
- Ti35/Ti60F100S3F2 – Pin A5

The two pins are now being renamed to "VQPS_GND" in the pinout to reflect the pins' function in the new and old devices respectively.

For customers who are not performing onboard fuse programming, there is no change required for existing PCBs designed with the previous device pinout. The "VQPS_GND" pin will be connected to the ground connection on the PCB.

For customers who require onboard fuse programming, the PCB needs to be updated to power the VQPS pin up or down to enable the fuse programming. For more information, please refer to the device data sheet and AN 057: Controlling VQPS with the Efinity® SVF Player.

No change in customer RTL designs or bitstreams is required. The change will not impact the functionality and performance of the devices.

An FAQ is available <[Link to FAQ](#)> to assist and provide more information to customers. Customers can also contact the Efinix FAE/Sales Team for further assistance.



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Affected devices are identified by the letter “S” in the first digit of the lot number marked on top of the package (Figure 1).

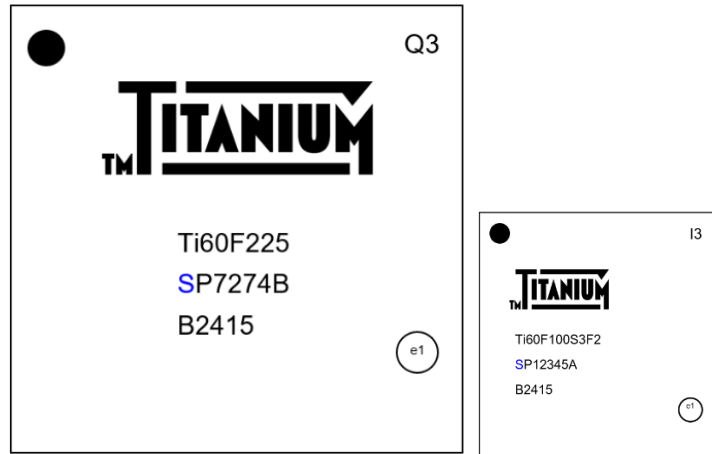


Figure 1 – Identifier for Devices with Enhanced Security Features

Affected Products:

This change affects the following Titanium ordering codes:

Ti35F225I3L	Ti35F225I3	Ti60F225C3L	Ti60F225C3	Ti60F225Q3
Ti35F225C4L	Ti35F225C4	Ti60F225I3L	Ti60F225I3	
Ti35F225C3L	Ti35F225C3	Ti60F225C4L	Ti60F225C4	

Ti35F100S3F2I3L	Ti35F100S3F2I3	Ti60F100S3F2I3L	Ti60F100S3F2I3
Ti35F100S3F2C4L	Ti35F100S3F2C4	Ti60F100S3F2C4L	Ti60F100S3F2C4
Ti35F100S3F2C3L	Ti35F100S3F2C3	Ti60F100S3F2C3L	Ti60F100S3F2C3

Reason for Change:

The reason for this change is to enhance security features for Titanium Ti35/Ti60F225 and Ti35/Ti60F100S3F2 devices and their variants.



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Date of Implementation:

Product qualification for Ti35/Ti60F225 and Ti35/Ti60F100S3F2 devices with enhanced security features for commercial and industrial grade is completed and passed. Orders for customer samples and production can be placed now.

Customers that would like to order older revision devices can contact Efinix Sales for further assistance.

Upon receipt of PCN: If a written request for additional information or rejection is not provided to Efinix, Inc. prior to 16-November-2024, the PCN will be considered accepted.

Supporting Data:

Qualification report for commercial and industrial grade is available and published on [Efinix website](#).

Qualification report for automotive grade will be available by mid-of October 2024.

Contact:

For more information, please contact a Sales & Marketing, FAE, or Quality Assurance Engineering representative in your region.