Application Note- AN001

Creating a custom glitch/drive sequence

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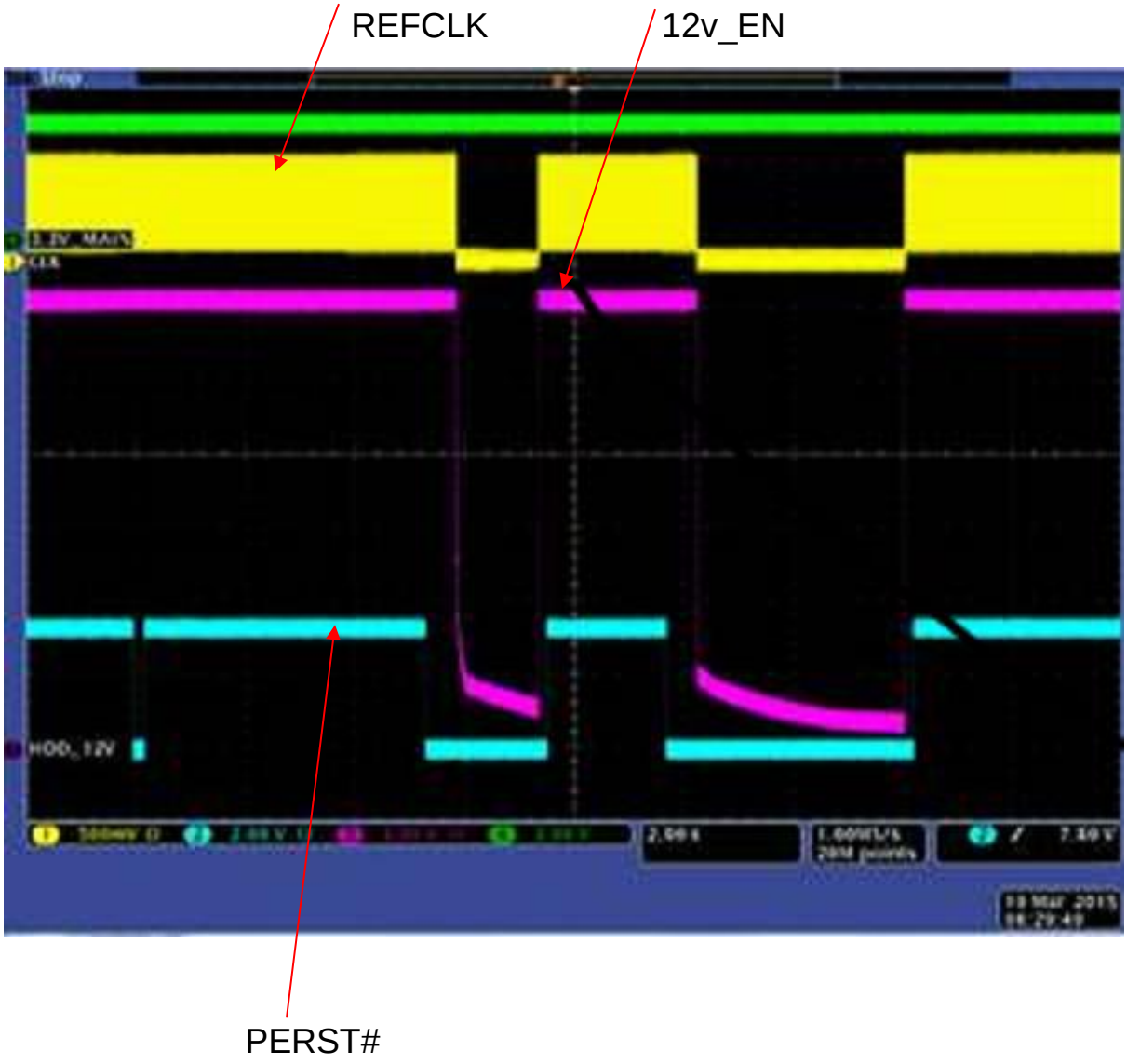
In this particular case, a customer requested to customize a sequence of events over a period of a few seconds. This was required to simulate a fault situation that had been observed when their PCIe device was connected to a particular host.

As the shortest duration was ~200ms, and total accuracy was not required, we can do this with a simple script of command to the module.

Customer Required Sequence

Below is the sequence of events that the customer requested.



There are three channels under observation are 12V_EN, REFCLK and PERST. Each signal needs to change state at a specific time in relation to each other, in order to recreate the failure scenario.

Results

Running the script included in the app note, we recreate the customer pattern

Using a scope and 3 probes. We observe the signals behaviour and captured the image of the sequence of the events