

ABSTRACT

A touch screen controller, a touch screen driving circuit and a touch screen system are provided. The touch screen driving circuit configured to drive a touch screen includes an analog driving circuit configured to provide driving signals to a display panel and a touch panel of the touch screen, and generate a touch sensing value based on a touch sensing signal from the touch panel; a display noise table (DNT) comprising display noise information indicating display noise that varies according to a driving state of the touch screen and image data; a feature extractor configured to extract a plurality of feature values from the driving state and the image data; and a touch processor configured to read a display noise value mapped to the plurality of feature values from the DNT, subtract the display noise value from the touch sensing value and generate a touch value.

FIG. 1