

# EDT ft5x06 based Polytouch devices

The edt-ft5x06 driver is useful for the EDT "Polytouch" family of capacitive touch screens. Note that it is *not* suitable for other devices based on the focaltec ft5x06 devices, since they contain vendor-specific firmware. In particular this driver is not suitable for the Nook tablet.

It has been tested with the following devices:

- EP0350M06
- EP0430M06
- EP0570M06
- EP0700M06

The driver allows configuration of the touch screen via a set of sysfs files:

`/sys/class/input/eventX/device/device/threshold:`

allows setting the "click"-threshold in the range from 0 to 80.

`/sys/class/input/eventX/device/device/gain:`

allows setting the sensitivity in the range from 0 to 31. Note that lower values indicate higher sensitivity.

`/sys/class/input/eventX/device/device/offset:`

allows setting the edge compensation in the range from 0 to 31.

`/sys/class/input/eventX/device/device/report_rate:`

allows setting the report rate in the range from 3 to 14.

For debugging purposes the driver provides a few files in the debug filesystem (if available in the kernel). In

`/sys/kernel/debug/edt_ft5x06` you'll find the following files:

`num_x, num_y:`

(readonly) contains the number of sensor fields in X- and Y-direction.

`mode:`

allows switching the sensor between "factory mode" and "operation mode" by writing "1" or "0" to it. In factory mode (1) it is possible to get the raw data from the sensor. Note that in factory mode regular events don't get delivered and the options described above are unavailable.

`raw_data:`

contains `num_x * num_y` big endian 16 bit values describing the raw values for each sensor field. Note that each `read()` call on this files triggers a new readout. It is recommended to provide a buffer big enough to contain `num_x * num_y * 2` bytes.

Note that reading `raw_data` gives a I/O error when the device is not in factory mode. The same happens when reading/writing to the parameter files when the device is not in regular operation mode.