Thunderboard React

Thunderboard React module interacts with SiLabs Thunderboard React device via BLE, periodically acquires telemetry (3D device orientation and acceleration, temperature, humidity, UV index, ambient light and buttons state) and controls onboard green and blue LEDs.

Implementing class: `com.arrow.selene.device.ble.thunderboard.react.ThunderboardReactModule`

OS dependency: Linux systems only (due to bluetooth stack implementations)

Requirements: bluez v5.42+, BLE adapter

Info:

Name	Data type	Unit of measurement	Valid values	Default value	Description
bleInterface	string	N/A	N/A	N/D	Defines name of bluetooth interface (e.g. `hci0`)
bleAddress	string	N/A	N/A	N/D	Defines MAC address of device (e.g. `FA:73:B2:D1:FD:C7`)

Properties:

Name	Data type	Unit of measurement	Valid values	Default value	Description
retryInterval	integer	milliseconds	0-2147483647 (0x7fffffff)	N/D	Defines interval of checking GATT connectivity. Makes sense only in case if `useDbus=false`
useDbus	boolean	N/A	true/false	false	Enables D-Bus to be used to obtain data instead of direct parsing of received packets
HumiditySensor/enabled	boolean	N/A	true/false	false	Enables humidity sensor
TemperatureSensor/enabled	boolean	N/A	true/false	false	Enables temperature sensor
UvSensor/enabled	boolean	N/A	true/false	false	Enables UV sensor
LightSensor/enabled	boolean	N/A	true/false	false	Enables ambient light sensor
KeysSensor/enabled	boolean	N/A	true/false	false	Enables keys sensor
AccelerationSensor/enabled	boolean	N/A	true/false	false	Enables accelerator sensor
OrientationSensor/enabled	boolean	N/A	true/false	false	Enables orientation sensor
LedsControl/enabled	boolean	N/A	true/false	false	Enables ability to control LEDs