



i2c-ftdi-d2xx

Interface library for I2C protocol over FTDI-D2XX

Installation

```
npm install --save i2c-ftdi-d2xx
```

Basic Usage

```
const ftdi = require("i2c-ftdi-d2xx");

const devices = await ftdi.list();
await ftdi.open({serial_number: devices[0]});

const SLAVE = ANY_NUMBER;
const TARGET = ANY_NUMBER;
const DATA = ANY_NUMBER;

let res;
res = await read({slave: SLAVE, target: TARGET});
res = await write({slave: SLAVE, target: TARGET, data: DATA});

ftdi.close()
```

Burst usage

```
const ftdi = require("i2c-ftdi-d2xx");

const devices = await ftdi.list();
await ftdi.open({serial_number: devices[0]});

const SLAVE = ANY_NUMBER;
const TARGET = ANY_NUMBER;
const N = ANY_NUMBER;
const DATA = [ANY_NUMBER, ANY_NUMBER];
```

```

let res;
res = await read({slave: SLAVE, target: TARGET, n:N});
res = await write({slave: SLAVE, target: TARGET, data: DATA});

ftdi.close()

```

Field/Register Based Usage

```

const ftdi = require("i2c-ftdi-d2xx");

const devices = await ftdi.list();
await ftdi.open({serial_number: devices[0]});

await ftdi.setRegisterMap({registerMap: VALID_REGISTER_MAP})

const SLAVE = ANY_NUMBER;
const TARGET_REGISTER = VALID_REGISTER_NAME;
const TARGET_FIELD = VALID_FIELD_NAME;
const DATA = ANY_NUMBER;

let res;
res = await read({slave: SLAVE, target: TARGET_REGISTER});
res = await write({slave: SLAVE, target: TARGET_REGISTER, data: DATA});
res = await read({slave: SLAVE, target: TARGET_FIELD});
res = await write({slave: SLAVE, target: TARGET_FIELD, data: DATA});

ftdi.close()

```

Advanced Usage

```

const ftdi = require("i2c-ftdi-d2xx");

const devices = await ftdi.list();
await ftdi.open({serial_number: devices[0]});

const SLAVE = ANY_NUMBER;
const READ_TARGET = [ANY_NUMBER, VALID_REGISTER_NAME, VALID_FIELD_NAME];
const WRITE_TARGET = {ANY_NUMBER: ANY_NUMBER, VALID_REGISTER_NAME:
ANY_NUMBER, VALID_FIELD_NAME: ANY_NUMBER};

await ftdi.setRegisterMap({registerMap: VALID_REGISTER_MAP})

let res;
res = await read({slave: SLAVE, target: READ_TARGET});
res = await write({slave: SLAVE, target: WRITE_TARGET});

```

```
ftdi.close()
```

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Development

TODO

Publish

npm version patch|minor|major

npm login

npm publish