



## IDX 7505 (IDX)

### Step / Direction Driver 5A / 75V with RS485

The **IDX 7505** is a small and rugged step-/ direction stepper motor driver system with a supply voltage of up to 75V and up to 5A RMS motor coil current (ratings for IDX 7505; standard IDX ratings are 3.5A and max. 50V). The parameters of the IDX like motor current and µStep resolution can be changed easily using the RS-485 interface with an ASCII protocol (e.g. with Hyperterminal). Also the firmware of the module can be updated via the serial interface. All settings are stored in an internal EEPROM, so that no bus system is required in the application. The module is fully protected and comes with a stand-alone reference search feature, using the integrated reference switch input or StallGuard™.

The motor, switches and power supply can be connected easily with screw terminal connectors. The housing is based on a thick aluminium plate which is used as a heatsink.

#### Electrical data

- up to 5A RMS coil current (7A peak)
- supply voltage 12V to 75V DC

#### Supported motors

- two-phase bipolar motors with 0.7A to 5A coil current

#### Interface

- Step / Direction input (5 – 24V signal) with up to 350kHz microstep frequency
- driver disable input
- RS485 host interface (optional use / use for parameterization)
- local input for reference switches

#### Features

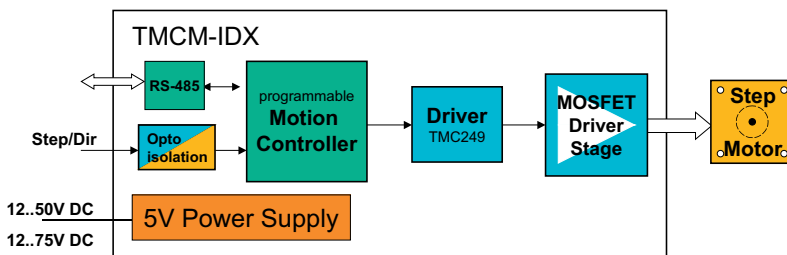
- optically isolated inputs for Step, Direction and Disable
- up to 256 times adjustable microstep resolution
- adjustable standby current
- reference search and turn CW / CCW via RS485
- StallGuard™ for reference search
- full protection / diagnostics

#### Software

- ASCII protocol controlled using simple terminal software

#### Other

- Pluggable screw terminal connectors for all signals
- RoHS compliant
- size: 65 x 64 x 24 mm<sup>3</sup>



ORDER CODE	DESCRIPTION
TMC IDX 7505	stepper driver (S/D) 5A / 75V

For further detailed information and datasheets please refer to our website <http://www.trinamic.com>.