PANdrives

PD42-1-1243-IOLINK

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The PD42-1-1243 is a small easy-to-use mechatronic PANdrive™ IO-Link™ actuator device. It combines a NEMA-17 stepper motor with controller and driver electronics. The IO-Link

connection through standard 4-pin M12 connector offers full control over the NEMA-17 stepper motor as well as provide a industry-standard IO Link communication protocol enabling control, configuration, and status monitoring.

The new chipset solution of TMC2130-LA and MAX22513 builds upon the benefits of IO-Link's two-way universal interface. The intelligent actuator, which combines industry-leading motion control technology into a plug-and-play solution, is 2.6x smaller and more than 50 percent lower power compared to the competitive solution. It brings intelligence to the factory floor by providing 50 percent more parameters to help improve predicting factory shutdown in advance and maximizes factory throughput.

MAX22513

Pair the intelligent actuator with the MAXREFDES165# four-channel IO-Link master reference design for a complete IO-Link solution.

MAXREFDES165#

Special Features

CoolStep™   SpreadCycle™   StallGuard2™   StealthChop™

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Technical Details

PD42-1-1243-IOLINK

Status	active
Flange NEMA	17
Flange	42mm
Holding Torque	27Ncm
Motor Supply	6...28V
Rated Speed	
Microsteps	1...256
IO-Link™	✓
CoolStep™	✓
SpreadCycle™	
StallGuard2™	✓
StealthChop™	✓

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Width	42mm
Height	42mm
Length	60mm
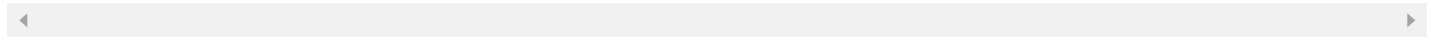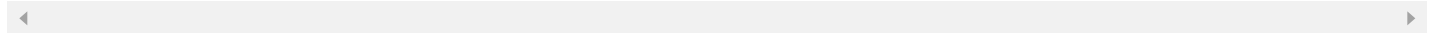
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Datasheet

File	Type	Size	Date
PD-1243 Hardware Manual	📄	1.4 MB	Oct 26, 2020, 10:22 AM

Documentation

File	Type	Size	Date
IO-Link Firmware Manual Rev V1.01 for Firmware V1.00	📄	820 KB	Nov 11, 2(

Software

File	Type	Size	Date
IODD File	📄	130 KB	Nov 10, 2020, 6:40 PM

Drawings

File	Type	Size	Date
PD42-1-1243-IOLINK STEP File	📄	44 MB	Nov 17, 2020, 8:29 AM

Related Products
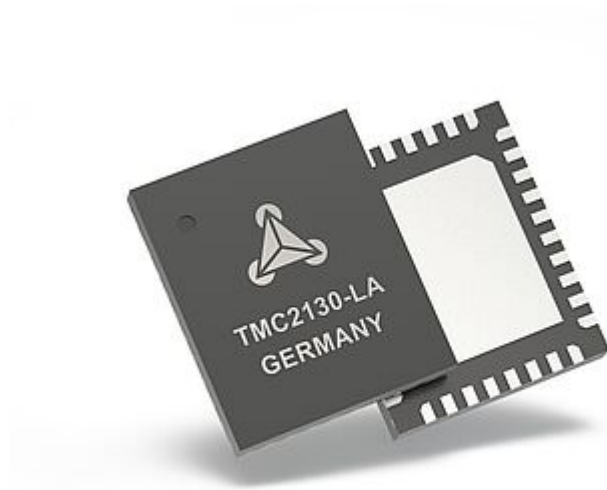
TMC2130-LA

The TMC2130 provides an integrated motor driver solution for 3D-Printing, Cameras, Scanners and other automated equipment applications. The device has an integrated microstepping indexer, the sensorless stall detection technology StallGuard2™, the sensorless load dependent current control CoolStep™ and the completely noiseless current control mode StealthChop™ and is intended to drive a bipolar stepper motor. The output driver block consists of low RDSon N-Chan

Details ▷

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