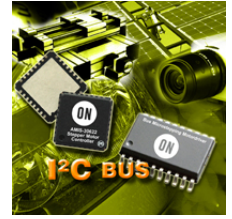


Product Overview

AMIS-30622: Stepper motor driver and controller with I²C Bus, microstepping features and stall detection

For complete documentation, see the data sheet.



The AMIS-30622 is a member of a stepper motordriver family with position controller and control/diagnostics interface integrated in one single chip. The family consists of two products: AMIS-30621 with LIN interface, ready to build dedicated mechatronics solutions connected remotely with a LIN master. AMIS-30622 with SERIAL interface, ready to act as peripheral device next to a microcontroller. The chip receives high-level positioning instructions through the interface and subsequently drives the motor coils until the desired position is reached. The on-chip position controller is configurable (OTP and Interface) for different motor types, positioning ranges and parameters for speed, acceleration and deceleration. The AMIS-30622 acts as a slave on the bus and the master can fetch specific status information like actual position, error flags, etc. from each individual slave node.

Features

- Microstepping (1/2, 1/4, 1/8, 1/16)
- Low resonance & noise
- High resolution
- Programmable peak current up to 800mA
- 20kHz PWM current-control
- Automatic selection of fast & slow decay mode
- Internal fly-back FETs
- Fully integrated current sense
- 8V-29V supply voltage
- Automotive compliant

For more features, see the data sheet

For more information please contact your local sales support at www.onsemi.com.

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