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Energy Efficient Innovations



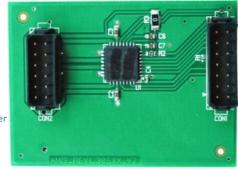
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AM305421R1DBGEVB: Daughter Board Stepper Driver NQ **Evaluation Board**

The AM305421R1DBGEVB is a form factor daughter board for driving bipolar stepper motors. The daughter board can be interfaced via I/O pins and the SPI bus to an external microcontroller. In conjunction with the evaluation kit AMIS305XXGEVK it forms a complete solution turning high level commands from a CAN node in well defined motions. The design incorporates the lowest bill of materials, small board size and perfect matched thermal resistance allowing to drive 3A at elevated ambient temperature or even 6A under certain conditions.

Note: This board must be used with the AMIS305XXGEVK Industrial Stepper Motor Driver Kit.



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Features and Applications

Features

- · Low bill of materials
- Small form factor (40mm x 32mm (20mm x 15mm active area))
- Plug and Play in combination with EVK-3052x
- Microstepping (full step, 1/2 (compensated and uncompensated), 1/4, 1/8, 1/16, 1/32)
- Nominal current of 3A (6A under certain conditions)
- Fully integrated current sensing
- 6V-30V supply voltage
- Compatible with 5V and 3.3V microcontrollers
- Next step and motion direction input
- Speed and load-angle output
- Diagnostics information
- Thermal warning and thermal shutdown
- Programmable PWM frequency and slope control

Evaluation/Development Tool Information						
Product	Status	Compliance	Short Description	Parts Used	Action	
AM305421R1DBGEVB	Active		Daughter Board Stepper Driver NQ Evaluation Board	AMIS30542C5421RG	>> Contact Local Sales Office >> Inventory	

Technical Documents						
Туре	Document Title	Document ID/Size	Rev			
Eval Board: BOM	AM305421R1DBGEVB Bill of Materials ROHS Compliant	AM305421R1DBGEVB_BOM_ROHS.PDF - 134.0 KB	0			
Eval Board: Gerber	AM305421R1DBGEVB Gerber Layout Files (Zip Format)	AM305421R1DBGEVB_GERBER.ZIP - 60.0 KB	0			
Eval Board: Schematic	AM305421R1DBGEVB Schematic	AM305421R1DBGEVB_SCHEMATIC.PDF - 219.0 KB	0			

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