

Stellaris LM3S818 Control Card Module for 3-Phase Brushless DC Motors

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MDL-LM3S818CNCD

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Description

Overview

The MDL-LM3S818CNCD is a Texas Instruments' (TI) motor controlCARD module designed to operate with TI's DRV83xx baseboards. It can be purchased with a DRV8312 baseboard as part of the DK-LM3S-DRV8312 development kit to spin 3-phase brushless DC (BLDC) motors using [Texas Instruments' \(TI\) InstaSPIN™-BLDC motor control solution](#) included on this kit's CD.

The Stellaris LM3S818 microcontroller (MCU) on the MDL-LM3S818CNCD controlCARD is pre-programmed with the necessary firmware in its flash memory to run a simple application for verification of operation and can also be reprogrammed by the customer to operate with other compatible baseboards to control other motors or end-customer applications.

The Stellaris LM3S818-based controlCARD module can be used in the following Texas Instruments' baseboards:

- DRV8312 Rev C and Rev D
- DRV8301HC (High Current 60A) Rev A and DRV8301 (6A) Kit



Stellaris® MDL-LM3S818CNCD Motor controlCARD for 3-Phase Brushless DC (BLDC)

Features

The MDL-LM3S818CNCD feature set includes:

- Stellaris® 50-MHz ARM® Cortex™-M3 LM3S818 microcontroller
- Pluggable 100-pin DIMM form factor
- Hardware-compatible with other TI DRV baseboards
- Auto-isolation enabling upon debug connection




Contents

The LM3S818 controlCARD module kit contains:

- MDL-LM3S818CNCD controlCARD module
 - Stellaris 50-MHz ARM® Cortex™-M3 LM3S818-based microcontroller controlCARD DIMM form-factor module
 - Onboard Stellaris In-Circuit Debug Interface (ICDI)
- Cables/Accessories
 - USB-miniB to USB-A plug cable (for debug and serial communication)
 - 1/2-inch blue jumper wires (for bridging power)
- DK-LM3S-DRV8312 kit CD with:
 - Complete documentation
 - LM Flash programmer utility for firmware updates
 - Crosshairs GUI for monitor and control
 - Applicable source code
 - Schematics
- Texas Instruments' Code Composer Studio™ Integrated Development Environment (IDE)


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| Part Number | Texas Instruments | Authorized Distributors | Status | Price (US\$) |
|-------------|-------------------|-------------------------|--------|--------------|
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Technical Documents

User Guides (1)

| Title | Abstract | Type | Size (KB) | Date | Views |
|--|----------|------|-----------|-------------|-------|
|  Stellaris@ MDL-LM3S818CNCD User's Manual | | PDF | 306 | 06 Dec 2011 | 410 |

More Literature (3)

| Title | Abstract | Type | Size (KB) | Date | Views |
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|  Stellaris@ MDL-LM3S818CNCD Read Me First | | PDF | 265 | 06 Dec 2011 | 49 |
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