X2C motor shield

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1. Introduction

With the X2C motor driver development board we can control a BLDC (brushless DC) motor or a permanent magnet synchronous motor (PMSM). The control unit is a X2C+ development board, this is a cost effective development board with integrated Pickit on Board programmer/debugger support. The main motor control device unit is a 16-bit dsPIC33EP256MC502.

* 1. Overview of the 3 phase motor driver shield

The board includes different circuit parts that implement these functions:

* a 3 phase inverter to control the six MOSFET
* CAN bus connection with an external device
* phase voltage feedback and current gain
* HALL sensor and quadrature encoder connection

The output parametes are U=24V and I=…..