1. This PMOD can control two DC motors or a bipolar step motor.
2. It can independently control two DC motors.
3. Based on the datasheet, the on voltage of the high-side FET is 200 mohms at Vm=5V and T=25C and 250 mohms at Vm=2.7V and T=25C. The on voltage of the low-side FET is 160 mohms at Vm=5V and T=25C and 200 mohms at Vm=2.7V and T=25C.
4. The PMOD PORT A pins on the FPGA are used to connected to the PMOD to control the motors. (Y13, AA13, AB16, AA15, AA14, AB13, AB17, AB15)