

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 $V_m=5V$ and $T=25C$ and 250 mohms at $V_m=2.7V$ and $T=25C$. The on voltage of the low-side FET is 160 mohms at $V_m=5V$ and $T=25C$ and 200 mohms at $V_m=2.7V$ 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)