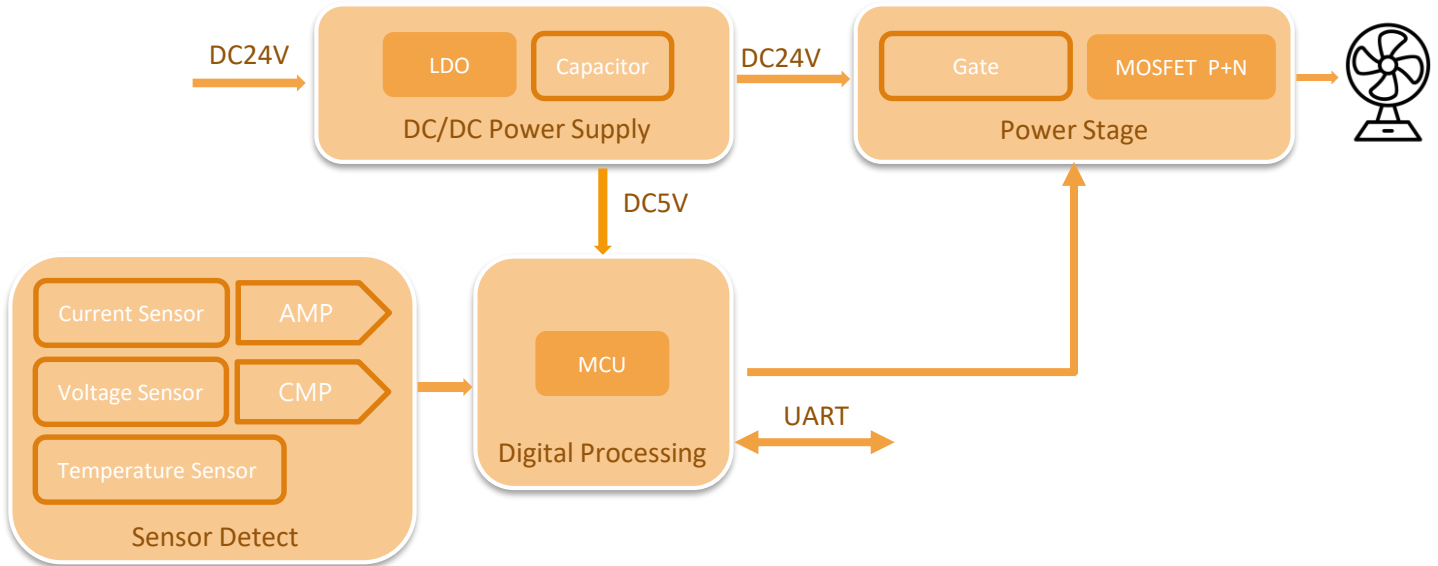




Zenitron 24V 3-Phase PMSM Fan Control with FOC



Part List

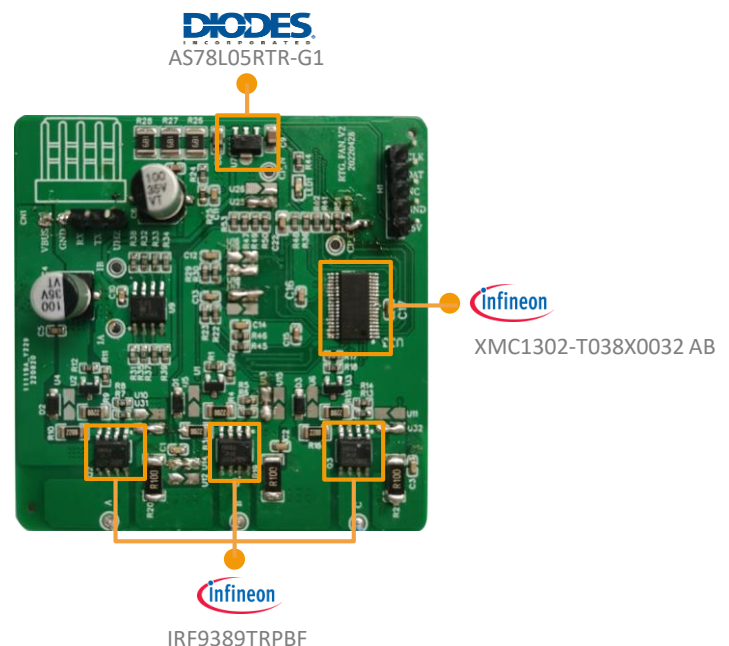
Block	Vendor	Part number	Description
Power Stage		IRF9389TRPBF	30V Dual N- and P-Channel StrongIRFET™ Power MOSFET, N-CH : Rdson=27mΩ, Id=6.8A, P-CH : Rdson=64mΩ, SO-8 package
DC/DC Power Supply		AS78L05RTR-G1	LDO, Vin max=30V Out=5V/ 100mA, SOT-89
Digital Processing		XMC1302-T038X0032 AB	High-performance 32-bit ARM Cortex-M0 32MHz CPU; 64K Flash; High control performance: 64MHz PWM, 1MS ADC and 25ns Comparators

Solution Feature Description

1. IFX XMC1300 platform, FOC algorithm for PMSM control
2. Support soft-start, OCP, OVP
3. MOSFET P+N direct drive(Gate driver less)
4. Support speed adjustment:
 - UART : 9600bps
 - PWM : f=5Khz, Duty=0~100%

Specification Description

1. DC Input : 24±2V
2. Max Current : 1.5A
3. Rotate Speed : 2000rpm
4. Interface : UART/PWM



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