



NOTE
 All resistors are 0.25W if not explicitly marked
 L1: N350, CuEm 0.25 (ATX PSU traf core)
 L2: N45, CuEm 0.9, 15 cm air core
 TR1: PRI 25, 1.1 CuEm / SEC 400, 0.3 CuEm / 9cm2 Steel core / Layer isolation
 R1: 0R33...1R adjust power (I limit)

ABBREVIATIONS (BUS)
 nRES - RESET, active LOW
 mRXD, mTXD - RX/TX lines, master side
 nDEC - Output transformer decay, active LOW
 DISC - Discharge energy
 BON - HV DC-DC Booster ON
 POW - Power control, PWM signal
 BUZ (MOSI) - Buzzer drive
 nRES - RESET, active LOW
 LG- (MISO) - LED green negative
 LG+ (SCK) - LED green positive
 BMON - Battery voltage monitoring
 DQ - One Wire I/O line (for DS18X20 temp. sensor)
 FMON - High voltage output pulse amplitude measure

MP1584 based DC-DC buck module modification
 1. Low voltage lockout treshold modify to 10.8V below
 2. Output voltage adjust to 3.95...4V