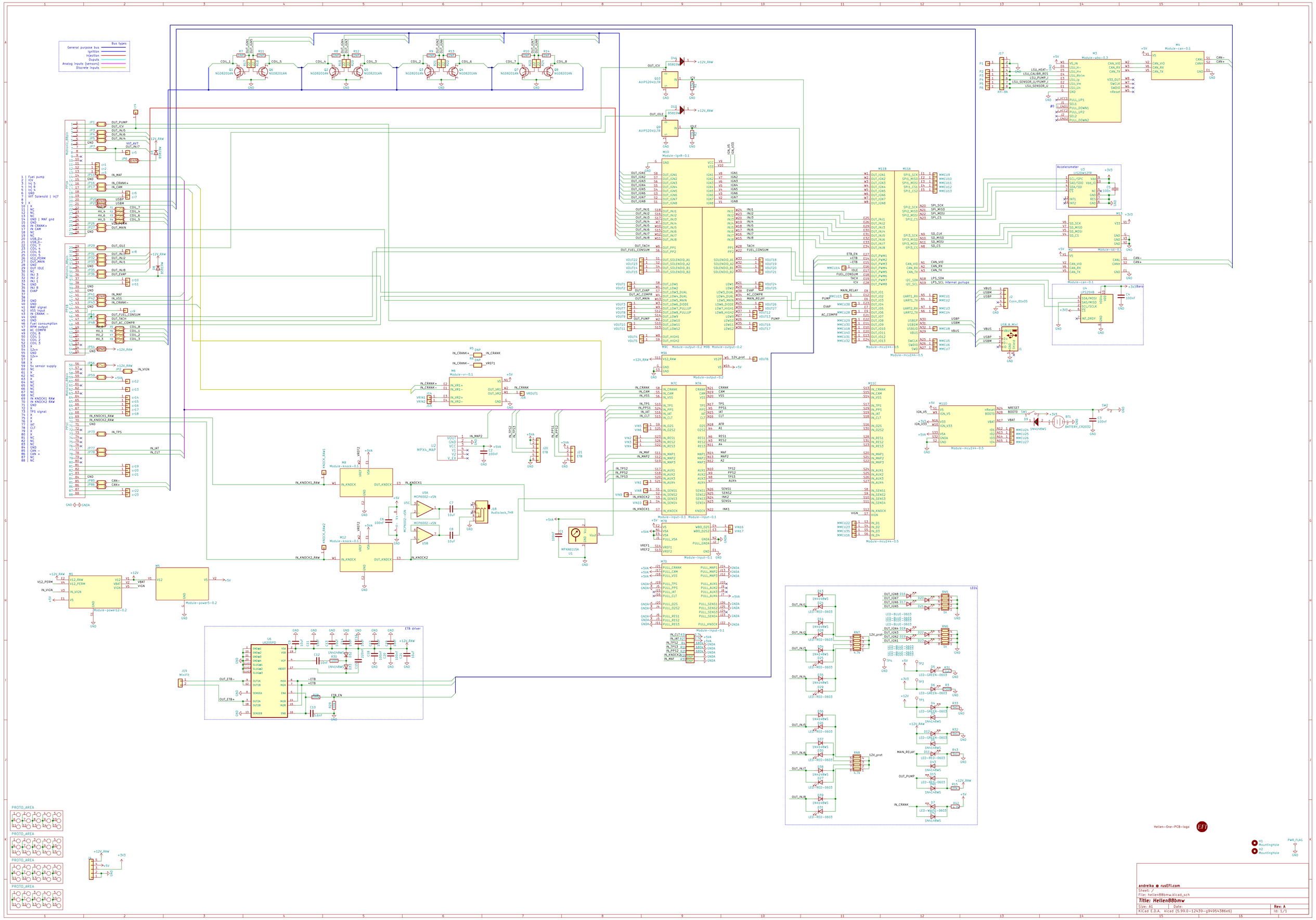
Bus types
General purpose bus
Ignition
Injection
Outputs
Analog Inputs (sensors)
Discrete inputs
Fuel pump
ICV
INJ 5
INJ 7
INJ 4
GND
VVT Solenoid | INJ7
X
X
NC
NC
NC
GND | MAF gnd
GND
IN CRANK+
IN CAM
NC
NC
USB_D+
USB_D-
COIL 1
COIL 4
COIL 6
COIL 5
V12_PERM
OUT_MAIN
GND
OUT IDLE
NC
INJ 3
INJ 2
INJ 1
GND
INJ 8
EVAP
GND
GND
MAF signal
MAF input
IN CRANK -
GND
GND
Fuel consumption
RPM output
AC COMPR
COIL 8
COIL 1
COIL 2
COIL 3
X
5v+
12v+
X
5v sensor supply
NC
NC
X
NC
NC
NC
NC
IN KNOCK1 RAW
IN KNOCK2 RAW
GND
TPS signal
X
X
X
IAT
CLT
X
X
NC
NC
NC
NC
GND
CAN -
CAN +
NC
NC
M10
Module-ign8-0.1
M9C
Module-output-0.2
M9B
Module-output-0.2
M9A
Module-output-0.2
M6
Module-vr-0.1
M8
Module-knock-0.1
M12
Module-knock-0.1
M1
Module-power12-0.2
M5
Module-power5-0.2
M7C
M7A
Module-input-0.1
M7B
Module-input-0.1
M7D
Module-input-0.1
M11B
M11A
Module-mcu144-0.5
M11C
Module-mcu144-0.5
M11D
Module-mcu144-0.5
M3
Module-wbo-0.3
M4
Module-can-0.1
M2
Module-sd-0.1
Module-can-0.1
Accelerometer
U3
LIS2DH12TR
M13
U4
LPS25HB
J2
Conn_01x05
USB_B_Mini
J1
LEDs
ETB driver
U6
L6205PD
J19
Molex1
PROTO_AREA
PROTO_AREA
PROTO_AREA
PROTO_AREA
Hellen-One-PCB-logo
H1
MountingHole
H2
MountingHole
PWR_FLAG
GND
andreiko @ rusEFI.com
Sheet: /
File: hellen88bmw.kicad_sch
Title: Hellen88bmw
Size: A1
Date:
Rev: A
KiCad E.D.A. kicad (5.99.0-12439-g949543866e6)
Id: 1/1