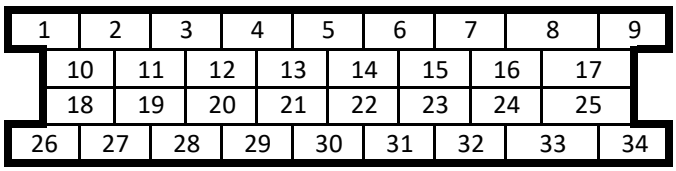
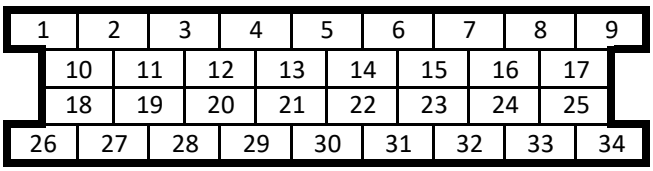
PnPduino Universal8 ECU

34 Pin INPUT A-PLUG (3 Slots)



ECU PIN	LABEL	LONG DESCRIPTION	Arduino PIN
A1	INP4	Spare Input 4	A11
A2	INP1	Spare Input 1	A8
A3	CLT	Engine Coolant Temp	A4
A4	O2	Wideband O2 Sensor	A1
A5	CANH	CAN Hi	STM32
A6	VR2+	VR2+ or Hall Sensor 2	D18
A7	VR1+	VR1+ or Hall Sensor 1	D19
A8	5V Out	5V Out to sensors	
A9	12V In	12V Input from Ignition switch	
A10	INP3	Spare Input 3	A10
A11	IAT	Intake Air Temperature	A5
A12	TPS	Throttle Position Sensor	A3
A13	CLUTCH	Clutch Switch	37
A14	CANL	CAN Lo	STM32
A15	VR2-	VR2- or Hall Sensor 2 Logic Ground	
A16	VR1-	VR1- or Hall Sensor 1 Logic Ground	
A17	INP5	Spare Input 5	A6
A18	INP9	Spare Input 9	A15
A19	INP2	Spare Input 2	A9
A20	12V Out	Fused 12V Supply to sensors only	
A21	12V Out	Fused 12V Supply to sensors only	
A22	12V Out	Fused 12V Supply to sensors only	
A23	12V Out	Fused 12V Supply to sensors only	
A24			
A25	INP7	Spare Input 7	A13
A26	EXTMAP	External MAP sensor	A0
A27	INP8	Spare Input 8	A14
A28	FLEX	Flex Fuel Sensor	2
A29	HALL4	Hall Sensor 4	3
A30	GRND	ECU Logic Ground	
A31	GRND	Power Ground	
A32	GRND	Sensor Ground	
A33			
A34	INP6	Spare Input 6	A12

34 Pin OUTPUT B-PLUG (4 Slots)



ECU PIN	LABEL	LONG DESCRIPTION	Arduino PIN
B1	VVT	VVT/VVTI or VTEC/VTC terminology	11
B2	IDLE2	Idle 2 or Spare High Current 1	10
B3	IDLE1	Idle 1 for IACV Solenoid	9
B4	INJ4	Injector 4	5
B5	INJ3	Injector 3	6
B6	INJ2	Injector 2	7
B7	INJ1	Injector 1	8
B8	INJ8	Injector 8	49
B9	INJ7	Injector 7	47
B10	BOOST	Boost or Spare Hi Current 2	12
B11	LC4	Low Current Output 4	29
B12	LC3	Low Current Output 3	28
B13	LC1	Low Current Output 1	26
B14	FAN	Radiator Fan 1	24
B15	TACH	Tachometer Output 5V or 12V	22
B16	FUELP	Fuel Pump or Circuit Opening Relay	23
B17	INJ6	Injector 6	45
B18	IGN4	Ignition Output 4	34
B19	IGN3	Ignition Output 3	33
B20	STP-B2	Stepper Idle Air Coil B2	
B21	STP-A2	Stepper Idle Air Coil A2	
B22	FAN2	Radiator Fan 2	25
B23	GRND	Power Ground	
B24	GRND	Power Ground	
B25	INJ5	Injector 5	42
B26	IGN1	Ignition Output 1	35
B27	IGN2	Ignition Output 2	36
B28	STP-B1	Stepper Idle Air Coil B1	
B29	STP-A1	Stepper Idle Air Coil A1	
B30	LC2	Low Current Output 2	27
B31	IGN8	Ignition Output 8	41
B32	IGN7	Ignition Output 7	40
B33	IGN6	Ignition Output 6	39
B34	IGN5	Ignition Output 5	38

IDLE2 and BOOST can be used for High Current Outputs.
PWM Radiator Fan should only use FAN2.
Arduino Pin # is the pin that you select in Tunerstudio. Do not change the Board Default Pins unless you know what you are doing.
Do not use Chassis Ground to avoid noise. Only connect to Power Ground which is mostly found on cylinder head.
For version2
Vehicle Speed Sensor can be wired to Hall 3