

ECU Specification	
Crankshaft Interception	
Minimum delay(advance)-	5.5uS
Range	-5° to +5° CA
Resolution	0.5° CA
Accuracy (non zero)	0.5uS
Maximum Speed for interception	3333rpm
Sampling Rate:	
Engine Speed, MAP	1000 samples per second
TPS	30 samples per second
CLT, IAT, EGO, BATT	4 samples per second
Data Logging	
Battery Voltage	
APP/TPS	
MAP	One-Shot , Average & Minimum
Engine Speed	Updated every engine revolution
Intercepted Crank Angle delta	
Exhaust Gas Oxygen /AFR	Multi presets, user definable option
IAT	Calibratable
CLT/CTS	NTC Thermistor
EGO	Calibratable
Additional Control Parameters	
Boost Control	Open Loop, PWM, 1Hz to 625Hz.
VVT control	Open Loop, PWM, 1Hz to 625Hz.
Thermal Fan Control	Set point with Hysteresis

Pin #	Function	Full Name	Additional Info
A2	TPS	Throttle Position Sensor	0-5V, 0V=100%
A3	MAP	Manifold Absolute Pressure	0-5V, 0V=0kpa
A0	IAT	Intake Air Temperature	0-5v, 0V =
A1	CTS/CLT	Coolant Temperature Sensor	0V
A4	BAT	Battery Temperature	Needs Voltage Divider -
A8	EGO	O2	Wideband Lambda Input
D18	CrO	Crankshaft Position Sensor Output	+2.5V Offset
D19	CmO	Camshaft Position Sensor Output	
D21	CmI	Camshaft Position Sensor Input	
D48	CrI1	Crankshaft Position Sensor Input 1	+2.5V offset
D49	CrI2	Crankshaft Sensor Input 2	+2.5V offset
D2	INC	Digipot X9Cxxx INC pin	
D3	UD	Digipot X9Cxxx UD pin	
D4	CS	Digipot X9Cxxx CS pin	
D8	VVT	VVT Open –loop PWM	
D9	Fan	Thermo-fan	
D10	Boost	Open Loop Boost Control	