WOLF VS ECU SPECIFICATIONS

INTRODUCTION

The Wolf V500 ECU offers 5th generation design from over 14 years of research and development made specifically for serious race and performance applications. Fast to install and quick to tune, with many quick setup methods, the Wolf V500 supports virtually all engine type Incredibly versatile auxiliary control and sensor systems allow direct connection and operation of all sensor and

control needs High resolution 3D maps, Datalogging PC Software, Internal MAP Sensor and a great value Wolf V500 Dash option

complete the package.	
GENERAL SPECIFICATIONS	
Latest 32 bit 40MHz CPU with Dual Time Co-Processors and dedicated injector drive system.	~
Dual Memory. Switch any maps or control parameters to a secondary setup from external signal or internal ECU value. Often used for tuning, speed/gearshift mapping, performance, boost level, fuel type or control system changes at the flick of a switch.	V
Lifetime Warranty (to Original Purchaser)	~
PCB's Manufactured to Quality Standard ISO9002	~
Standard kit package includes wiring harness and other components, reducing extra purchases	~
8 Full sequential Injector Outputs, Sequencing and Patterns adjustable	~
Smart Injector Driver, Low Heat, Drives down to 0.5 ohm injectors	~
8 Full sequential Ignition Outputs, Sequencing and Patterns adjustable	~
Control up to 27 auxiliary output pins with many 3D, linear, PWM, switched and dedicated functions for any possible requirement	~
High resolution 3D maps with quick adjustment modes, on-screen performance trims	~
Latest 3D graphing, live dashboards and Datalogging software	~
Internal MAP Sensor reads up to 30psi boost. (External higher), reducing extra purchases	~
Supports most original engine and vehicle sensors, reducing extra purchases	~
Maximum RPM	25,000+
1,2,3,4,5,6,8,10,12,16 Cylinder operation, 1,2,3,4 rotor operation, odd cylinder and odd fire supported	~
ECU Case Size (mm), Very Compact	126 x 104 x 39
ECU Weight (grams), Light Weight	500
Waterproof connector with gold plated contacts	~

CONTROL FUNCTIONS

The Wolf V500 includes many dedicated control functions, plus the versatility of many auxiliary control pins driven by the 3D mapped MCO system for variable outputs and maths functions, plus a 16 channel GPO system for any switched or windowed operation control.

THERMO FAN	Temperature and hysteresis selectable thermo fan operation. (dedicated pin)	~
FUEL PUMP	EFI Fuel Pump control with prime and no-run cutoff. (dedicated pin)	~
TURBO TIMER	Programmable activation and special Rev Limit when engaged. (dedicated pins)	v
IDLE LOCK	Stabilise idle conditions on light flywheel race and performance engines.	~
REV LIMIT	Soft Cut, Hard Cut and Staged Cut programmable dual Rev Limiter. Fuel and/or Ignition Cut options.	~
AIR CON	Respond to idle speed control and tuning needs as engine load changes. (dedicated pin)	~
SHIFT LIGHT	Use any auxiliary pins as programmable 1 to 6 stage shift light with adjustable flash rpm.	1-6 Stage
STEPPER MOTOR	Control stepper motor for idle speed control or from any 3D MCO controller channel.	~
IDLE SPEED	Versatile Idle Speed Controller, single PWM, master/slave PWM and stepper motor drive. 128 point Target RPM vs. Engine Temperature, Fast Idle, Special Trims, Air Con Request and more.	V
CLOSED LOOP	Stoichometric tracking closed loop control for catalytic converter systems.	~
BOOST CONTROL	Versatile mapped Boost Controller system with Over Boost Cut. 128 point user defined boost level vs. RPM, every 125 RPM. 128 point Engine Temp, Air Temp and Throttle Position Trims 128 point Special Trim, desired boost can be mapped against any sensor or ECU value.	V
MULTICONTROLLER	6 MCO Channels each support multi-axis 3D control tables for variable, maths or switched output functions. Each MCO channel can be operated by any sensor, input or internal ECU value, and trimmed by 4 further 2D tables. Common uses: VTEC/VVT, Special Fuel and Ignition Trims, NOS, PWM Solenoid Valves, Stepper Motor operation, Fuel Used pulses, custom and OEM control operations and more.	6 MCO Channels
GPO CONTROLLER	General Purpose Output System (GPO). 16 GPO Channels each support multi-input switched or windowed switching operation from any sensor, input, or ECU internal value. Common uses: Cam Switching, NOS, Intercooler Spray, Emmisions solenoids, Warning lights, custom and OEM control operations.	16 GPO Channels

Wideband Lambda Sensor inputs, supporting readout in Lambda, AFR Petrol, LPG, Diesel, Alcoho 2 Bosch LSU4 and NTK UEGO Wideband Sensors supported ~

DEDICATED INPUTS (SENSOR AND CONTROL)

	(02.10017.112 00111102)	
These dedicated inputs	support full calibration, and do not require Auxiliary I/O pine	s to be used.
INTERNAL MAP	Reads Naturally Aspirated, Super and Turbo charged engines to 30psi boost at no extra cost. External MAP sensor allows > 30psi.	~
EXTERNAL MAP/MAF	ECU will also operate from external MAP or MAF (Mass Air Flow) Sensors.	~
AIR TEMPERATURE	Any Factory/OEM or aftermarket sensor. Full Software Calibration.	~
ENGINE TEMPERATURE	Any Factory/OEM or aftermarket sensor. Full Software Calibration.	~
THROTTLE POSITION	Factory/OEM or aftermarket variable resistance sensor. Full Software Calibration.	~
AIR CON REQUEST	Respond to idle speed control and tuning needs as engine load changes.	V
LAMBDA	Wideband and Narrow Band Sensors supported.	2
TURBO TIMER	Inbuilt Turbo Timer control function. (requires external relay attached)	~

DEDICATED OUTPU	TS	
	uts are always available, and do not require Auxiliary I/O pins t	o be used.
IDLE AIR (PWM)	Idle Air Valve Solenoid, PWM Drive (Master)	<i>v</i>
BOOST CONTROL	Boost Control (Turbocharger wastegate control) RPM pulse signal to support Factory/OEM or aftermarket	
TACHO	tachometer	~
THERMO FAN	Control signal for thermo fan operation	~
AUXILIARY INPUTS	AND OUTPUTS	
world names and valu	n be renamed and scaled for Dash, Control and Logging, allow les to be referenced. Auxiliary Output pins can be attached to	
control functions avail		
AUX INPUTS	Auxiliary Input Pins Auxiliary Output Pins, Low Side Driver. Unused Injector and Ignition	13
AUX OUTPUTS LS	Pins can be controlled, giving up to 14 extra.	7 to 21
AUX OUTPUTS HL STEPPER MOTOR	Auxiliary Output Pins, High/Low/Push-Pull Driver Stepper Motor Drive (4 wire)	6
SPEED/FREQUENCY	Speed / Wheel Speed / Frequency Inputs	4
PIN CONTROL	Programmable Pullup Resistors	~
triggers. Optical, Hall a board within the ECU.		processor
	e: Optical, Hall or Reluctor on both REF and SYNC mal Trigger Processor unit within ECU	
Software adjustable filterin	g, High interference immunity	~
Custom trigger tooth and p	pattern configurations	~
FUEL DELIVERY SY	STEM	
	ap and Delivery system is designed for Factory/OEM levels of o	detail and
resolution, while retain	ning easy tuning and setup with any race and performance ap	lications.
	Points, RPM x Load, steps every 125rpm reducable to 1000rpm if desired calibrated via 256 point table	128 x 16 (204
Individual Cylinder Trims		8
	quick adjustment via Dash or PC Software perature mapped Starting Fuel, Post Enrichment, Initial Fuel Pulse, Flood	~
Clear		~
Acceleration Enrichment, [Overrun Fuel Cut	Decel Enleanment, 3 x 128 point 2D mapped tables	~
Compensations, Air Temp	erature, Engine Temperature, MAP/MAF, Battery Voltage	~
	can be trimmed by any available input, sensor or internal ECU value. mapped, selectable to any combination of injector outputs.	2
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Specifications are subject to change without notice.

Revision 2, 1st December 2006