SPECIFICATIONS	FT350	FT400	FT500LITE	FT500	FT600
Piston engine control (cylinders)	1 ~ 12		1 ~ 12		
Rotary engine control (rotors)	2	2 - 3	2 - 3 - 4		
Crank trigger input	✔	✔	✔	✔	✔
Sequential ignition	✔	✔	✔	✔	✔
Sequential fuel injection	✘	✘	✔	✔	✔
Fuel banks (stages)	2		2		
Individual fuel and ignition trim	✘	✘	✔	✔	✔
Simplified 2D fuel and ignition maps	✔	✔	✔	✔	✔
Advanced 3D fuel and ignition maps (table)	✘	✘	✔	✔	✔
Configurable map resolution	✘	✘	✔	✔	✔
Fuel injection time resolution	0.040ms - **Batch Firing**		0.001ms - **Sequential**		
Fuel injection phase angle control	✘	✘	✔	✔	✔
Real time programming	Interface		PC	Interface - PC	Interface - PC

FEATURES	FT350	FT400	FT500LITE	FT500	FT600
Diagnostic panel	✔	✔	PC	✔	✔
Dashboard	✔	✔	✘	✔	Advanced
LEDs for progressive shift light	✘	✘	✘	✘	10
LEDs for status indicator or alerts	✘	✘	✘	✘	4
O2 closed loop fuel compensation	--	Basic	Advanced 3D table	Advanced 3D table	Advanced 3D table
Idle speed control	1-2[a]	1-2-3-4[a]	1-2-3-4-5[a]		
Electronic throttle control (drive-by-wire)[b]	✘	✔	✔	✔	✔
Drag racing functions for power management	Basic		Advanced		
Progressive nitrous control	Basic		Advanced		
Pro-Nitrous functions	Simple Progressive	Simple Progressive	Advanced Progressive and 6 Stages	Advanced Progressive and 6 Stages	Advanced Progressive and 6 Stages
Generic duty cycle control	Basic		Advanced		
Wastegate boost control	Basic		3-way or dual valve, intake or CO2 based		
Power shift (gear change ignition cut)	✘	✘	✘	✘	✔
Fine-tuning maps and functions	✘	✘	✔ [c]	✔ [c]	✔ [c]
Editable sensors parameters	✘	✘	✔ [d]	✔ [d]	✔ [d]
Warning lights	Dashboard only	Dashboard only	--	Dashboard only	Dashboard and 14 LEDS

a. 1 - By timing; 2 - ON/OFF vale; 3 - Step motor; 4 - Electronic throttle; 5 - PWM valve.

b. Not compatible with all electronic throttle bodies.

c. Features and maps developed to improve the engine control on several applications, providing better driveability and comfort. Example: prime pulse, post start enrichment, TPS or MAP compensations, idle controls integration, voltage compensation per bank, idle by TPS table, deceleration fuel control.

d. Allows compatibility with OEM sensors (including parallel connection with OEM ECU).

FuelTech

POWER **FT**
ECU

	FT350	FT400	FT500LITE	FT500	FT600
INPUTS AND OUTPUTS					
Input channels	7	13	13	13	22
Configurable inputs	4	1	11[e]	11[e]	20[e]
RPM signal input	Hall - Magnetic	Hall - Magnetic	Hall-Magnetic (differential)		
Cam sync sensor	Hall - Magnetic	Hall - Magnetic	Hall - Magnetic	Hall - Magnetic	Hall-Magnetic (differential)
External MAP sensor input	🔴	🔴	🟢[f]	🟢[f]	🟢[f]
Output channels	12	20	20	20	32
Injector outputs	2		8[g] (up to 20)[h]	8[g] (up to 20)[h]	16[g] (up to 32)[h]
Ignition outputs	5	6	Up to 12 (8[i]+4[k])	Up to 12 (8[i]+4[k])	Up to 16 (8[i]+8[k])
Auxiliary outputs	4	7	4[i] (up to 20)	4[i] (up to 20)	8[i] (up to 32)
Tach outputs	1		0 ~ 1		
DATALOGGER					
Datalogger capacity	25min[m]		Add space = 2hr 50min[m]		
Sample rate	2 ~ 20 Hz		1 ~ 200 Hz		
Configurable rate per channel	🔴	🔴	🟢	🟢	🟢
Number of sessions (files)	1		Multi		
Internal datalogger channels	19	24	128	128	256
HARDWARE					
Chassis	Plastic		Plastic	Plastic	Waterproof Aluminum
Fixation	Smart Clip		Smart Clip	Smart Clip	Anti-vibration
Integrated accelerometer and gyroscope sensor	🔴	🔴	🔴	🔴	🟢
Automotive connector AMP SUPERSEAL 1.0	🔴	🔴	🔴	🔴	🟢
Connector (pins)	24 + CAN	40 + CAN	40 + CAN + USB	40 + CAN + USB	68 (2CAN) + USB
Programming interface	Touchscreen - PC	Touchscreen - PC	PC	Touchscreen - PC	Touchscreen - PC
Dash Display	TFT 4.3" Color	TFT 4.3" Color	🔴	TFT 4.3" Color	TFT 4.3" Color
Built-in MAP sensor (absolute)	7 bar		7 bar		
FuelTech CAN network	1 - FTCAN 1.0		1 - FTCAN 2.0	1 - FTCAN 2.0	2 - FTCAN 2.0
PC communication	CAN[n]		USB[n]		
Weight	7.8oz / 220g	8.1oz / 230g	5.3oz / 150g	8.1oz / 230g	20.7oz / 588g
Dimensions	5.51 x 3.22 x 1.29 in	5.51 x 3.22 x 1.29 in	5.51 x 3.22 x 1.29 in	5.51 x 3.22 x 1.29 in	5,86 x 3,7 x 2,42 in

e. Channels are customizable, i.e., exhaust back pressure, suspension travel, exhaust gas temperature (requires EGT-8CAN or FuelTech ETM-1), fuel tank level, etc.f. Allows the use of the stock MAP sensor on a "plug and play" installation.

f. Allows the use of the stock MAP sensor on a "plug and play" installation.

g. Usually used to control high impedance injectors with no external driver needed (they also can be configured as auxiliary outputs).

h. Mandatory use of a Peak and Hold driver.

i. Usually used for ignition control (they also can be set up as injector outputs or auxiliary outputs).

k. Usually used for stepper motor, electronic throttle, MSD/M&W and other ignitions activated by 12V.

m. For FT500, the recording time was measured with 24 channels and 25Hz, for the rest of the line it was at 2Hz with the maximum number of channels.

n. FT500, FT500LITE and FT600 use a common mini USB cable (included). The rest of the line demands the FuelTech USB-CAN Converter (sold separately).