PERFORMANCE IN YOUR HANDS!

FuelTech is an international company specialized in developing and manufacturing state of the art performance engine management systems. The company’s elite staff, always keeping a grip on the forefront of technology available, guarantees top notch quality and constant innovation.

The product line’s greatest advantage is its overall simplicity, from its painless installation process to real time tuning within hours, depending on the application. Our FT series ECU’s built-in interface is a complete set that allows the user to have full control of the engine without the need of a PC, allowing the end user to do a smoothed upgrade.

FuelTech’s craftsmanship and technology is built on extreme performance and proof comes from our motto: the race track. Excellent record-breaking track results on a wide variety of racing classes such as Sportsman, Pro Drag, Drag, Off-Road, Rally, Motocross and Marine applications testify our commitment to attain the best results, everywhere we compete. Developing and designing high performance products since 2003, FuelTech will surely have a product to fulfill your needs.

Over the past few years we have worked extensively with the US market to prepare our latest EFI system, the FT600, for release in the USA. A team of racing experts worked hand in hand with our in-house staff of software engineers, hardware engineers and designers to help us deliver a product that could be used easily on anything from a street car, bike, jet ski, etc. all the way up to a 5000+hp twin turbo alcohol Pro Mod combination. We made several hundred dyno pulls, many trips to the states and used countless R&D hours to end up with an incredible feature-rich product that we are extremely proud to release to our customers.

ECUS

Engine management systems to control fuel and ignition. Built-in dashboard, power management and a lot more! Fits cars, boats, motorcycles, jet-skis, etc...

SUMMARY

- 03 = ECUS
- 15 = CONTROLLERS
- 19 = METERS AND LOGGERS
- 24 = IGNITION
- 27 = SENSORS AND ACCESSORIES
- 34 = FT APPAREL
Extreme PERFORMANCE

FT600 is FuelTech’s most advanced engine control and monitoring system. It is an ECU, dashboard, data acquisition and power management system.

- ECU & Dashboard in a single product
- Up to 4 customizable dashboard screens available
- Sequential injection for up to 32 injectors
- Sequential ignition for up to 16 coil on plugs
- New 2-step hi-res power management strategy
- G-Meter and Gyro
- Drag Racing features
- Power management
- Closed Loop O2 Control
- Nitrous control
- Active traction control
- Additional 20 configurable inputs
- 32 configurable outputs
- Customizable splash screen
- Datalogger
- User-friendly interface
- USB
- Custom emblem
- Custom flash drive
- And much more!

- FT600 is FuelTech’s most advanced engine control and monitoring system. It is an ECU, dashboard, data acquisition and power management system.
**FT550**

It is an ECU, dashboard, data acquisition and power management system.

- **Virtual LEDs**
- **Color touchscreen**
  - TFT – non reflective
- **Electronic throttle control**
- **Sequential injection for up to 24 injectors**
- **Sequential ignition for up to 12 coil on plugs**
- **Built-in accelerometer**
- **New 2-step hi-res power management strategy**
- **Customizable splash screen**
- **FuelTech emblem**
- **And much more!**

**Updates, data and map downloads through USB communication**

**Mounting System included**

- **14 configurable inputs**
- **24 outputs**

- **256 channel internal datalogger**
- **Active traction control**
- **Integrated BoostController**
- **O2 closed loop**
- **Integrated GearController**

**Without Harness:**
- #5496

**With 10ft blank harness:**
- #5497

**Waterproof**

**Up to 4 customizable dashboard screens available**
FuelTech EVERYWHERE

Updates, data and map downloads through USB communication

Mounting System included

Virtual LEDs

Waterproof

Automotive connectors

Updates, data and map downloads through USB communication

Mounting System included

Virtual LEDs

Color touchscreen TFT – non reflective

Waterproof

Automotive connectors

- Sequential injection for up to 10 injectors
- Sequential ignition for up to 5 coil on plugs
- Customizable splash screen
- Idle speed control by timing, PWM valve or ON/OFF valve
- Up to 4 customizable dashboard screens available
- And much more!

256 channel internal datalogger
Active traction control
O2 closed loop

Without Harness:
#5384

With 10ft blank harness:
#5385

Integrated BoostController
Up to 4 customizable dashboard screens available
• Sequential injection for up to 24 injectors
• Sequential ignition for up to 12 coil on plugs
• Built-in accelerometer
• New 2-step hi-res power management strategy
• FuelTech emblem
• And much more!

Without Harness: #5613
With 10ft blank harness: #5495

Update, data and map downloads through USB

Mounting System included

Automotive connectors

Waterproof

256 channel internal datalogger
Electronic throttle control
Active traction control
Integrated BoostController
Integrated GearController

Digital CAN interface
Power FT FT550LITE

FuelTech

POWER ECU
FEATURES

Piston engine control (cylinders)
1 ~ 8 1 ~ 12 1 ~ 12

Rotary engine control (rotors)
2 2, 3 and 4 2, 3 and 4

Crank trigger input
• • •

Sequential ignition
• • •

Sequential fuel injection
• • •

Individual fuel and ignition trim
• • •

Simplified 2D fuel and ignition maps
• • •

Advanced 3D fuel and ignition maps (table)
• • •

Fuel injection time resolution
0.001ms 0.001ms 0.001ms

Ignition timing resolution
0.1

Fuel injection phase angle control
• • •

Real time programming
Touchscreen + PC PC Touchscreen + PC Touchscreen + PC

Diagnostic panel

Dashboard
Touchscreen, up to 4 screens • Touchscreen, up to 4 screens

Configurable pixel display
7c  14c  20c

RPM signal input
Hall - Magnetic (differential) Hall - Magnetic (differential) Hall - Magnetic (differential)

Output channels
10  24 32

Configurable outputs
up to 10 (6e+4f) up to 24 (4h+12e+8f) up to 32 (8h+16e+8f)

Injector outputs
up to 10d (6e) up to 24d(12e) up to 32d (16e)

Ignition outputs
up to 5 (4f+1g) up to 12 (8f+4h) up to 16 (8f+8h)

Datalogger capacity
2h50mini 2h50mini 2h50mini

Sample rate
1 ~ 200 Hz 1 ~ 200 Hz 1 ~ 200 Hz

Configurable rate per channel
• • •

Internal datalogger channels
up to 256 up to 256 up to 256

Chassis
Plastic - Redesigned Plastic - Redesigned Waterproof Aluminum

Programming interface
Touchscreen + PC PC Touchscreen + PC Touchscreen + PC

Dash Display
TFT 4.3” Color

FuelTech CAN network
1 - FTCAN 2.0 2 - FTCAN 2.0 2 - FTCAN 2.0

PC communication
USBk

Weight
9.5oz / 270g
11.64 oz / 330g
10oz / 309g
20.7oz / 588g

Dimensions
5.75 x 3.62 x 2.13 in
5.75 x 3.62 x 2.13 in
5.75 x 3.62 x 2.13 in
5.75 x 3.62 x 2.13 in

In ECUS

www.FuelTech.net
CONTROLLERS
Advanced electronic controllers, high current injector drivers, high power coil drivers, gear shift controllers, boost controllers.
Multi-stage Boost Controller with dual ramp per stage

- Multi injectors OLED display and buttons that allow programming directly on the unit. No computer needed.
- Active boost control through manifold pressure management
- Up to 6 stages of boost and 1 launch stage
- For drag racing, circuit and street cars
- Dual boost ramp control per stage
- Burnout mode (fixed boost for burnout)
- 3 modes of adjustment:
  - Time and pressure
  - Time and Ramp
  - Ramp and Pressure

1 FuelTech USB-CAN Converter needed (sold separately)

Current control driver for low impedance injectors
4-channel low impedance injectors driver unit
Available in three current versions:
- 2A/0.5A
- 4A/1A
- 8A/2A

Keypad with configurable buttons and multicolor backlight

SwitchPanel-5 mini:
- Supply Voltage: 12-24Vdc
- Communication BUS: FTCAN 2.0
- IP67 protection against water and dust
- Include predefined and blank stickers so you can make your own IDs.
- Multicolor LED backlight that varies according to the programmed function.
- Redistribute up to 4, 5 or 8 PowerFT ECU inputs to extra sensors or functions, allowing you to expand your project without having to purchase more devices with more inputs.
- The unit has screws in the back, allowing an easy and discreet installation into the dashboard, making your project even more professional.
- Compatible with all the features in the PowerFT line.
METERS & LOGGERS

Data acquisition systems, conditioners for thermocouplers, and wide band O2 sensor conditioning and display.

GearController

Active traction control and power-shift function

- 16x2 characters OLED display and buttons that allow programming directly on the unit. No computer needed
- Active traction control by wheel speed (compatible only with FT350, FT400 and PowerFT line)
- Retards ignition timing to control power on the wheels and cuts ignition on extreme situations
- Full throttle gear change with no clutch use, keeping constant torque and reducing time under no acceleration (power-shift function)
- Individual gear cut time per shift
- Compatible with stock shift levers (contact us to check compatibility prior to acquisition)

1 FuelTech USB-CAN Converter needed (sold separately)
2 This feature is only compatible with dog engagement equipped gearboxes

GearController: only compatible with dog engagement equipped gearboxes (Liberty Pro Shift, Liberty Face Plate, etc). Synchro gearboxes are not compatible with GearController.

• Designed to use with FuelTech FT600 or GearController to perform powershifts
• Detects knob deformation to cut the ignition
• H-pattern, sequential or inline application
• CNC machined
• Available in 5 different threads:
  • M10 x 1.25
  • M10 x 1.50
  • M12 x 1.50
  • M12 x 1.75
  • 3/8”-24 UNF

18x2 characters OLED display and buttons that allow programming directly on the unit. No computer needed

Shift Knob w/ Strain Gauge Sensor

- Designed to use with FuelTech FT600 or GearController to perform powershifts
- Detects knob deformation to cut the ignition
- H-pattern, sequential or inline application
- CNC machined
- Available in 5 different threads:
  • M10 x 1.25
  • M10 x 1.50
  • M12 x 1.50
  • M12 x 1.75
  • 3/8”-24 UNF

GearController: only compatible with dog engagement equipped gearboxes (Liberty Pro Shift, Liberty Face Plate, etc). Synchro gearboxes are not compatible with GearController.

Individual gear cut time per shift
Compatible with stock shift levers (contact us to check compatibility prior to acquisition)
Wideband O2 sensor conditioner

- Waterproof (IP67 Certified)
- Easy viewing and small size
- Extended reading scale 0.35 Lambda and up (2.24 AFR Alcohol, 5.15 Gasoline)
- CAN communication 2.0: sends the O2 reading via CAN to the ECU, freeing up the analog inputs
- Allows several conditioners connected to the FTCAN 2.0 network
- Automatic CAN network setup
- 0-5V analog output for connection with stand alone ECU or external datalogger
- Bosch amplification and control circuit

6 channel data acquisition system with integrated wideband O2 display and conditioner

- 6 recording channels: lambda (internal), RPM and 4 analog inputs (0-5v)
- Native high speed 2.0 USB connection, with no serial adapter required
- Up to 100Hz of sampling rate
- Up to 7 hours of recording (on the lower sample rate)

8-channel conditioner for Type K thermocouple with CAN communication

- Conditioner for Type K thermocouples
- 8-channel conditioner for Type K thermocouple with CAN communication
- Extended reading: 32°F to 1832°F
- CAN network communication for PowerFT ECU line, no analog input needed on your ECU
- Any temperature sensing, i.e., exhaust, intake, oil

Thermocouple conditioner type K

- Output signal 0-5V
- 8V to 26V power supply
- Single channel
- For PowerFT line or external Datalogger
- Extended reading: 32°F to 1832°F
- Any temperature sensing, i.e., exhaust, intake, oil

High-end O2 sensor conditioner for Alcohol

- High precision and speed equipment that uses a special O2 sensor conditioner from NTK laboratories or Bosch LSU 4.2 (with adapter sold separately)
- Extremely rich air/fuel ratio readings: from 0.30 Lambda (1.94 AFR Alcohol)
- 0-5V analog output for connection with stand alone ECU or external datalogger
- CAN communication with FT500 and FT600

1 Sensor not included
2 Compatible with O2 sensor Bosch #0965
The FuelTech FTSPARK is an extremely high energy Capacitive Discharge Ignition (CDI) system designed to meet the highest spark requirements for racing.

- Extreme performance applications
- 4 Versions: 1, 4, 6, and 8 coil(s)
- Configurable 650mJ energy
- Aluminum housing
- Advanced diagnosis through CAN Bus network
- Single wire triggering mode by Serial bus (1 wire) to PowerFT ECU line or traditional one trigger per channel
- Automotive connector with gold-plated terminals

IGNITION
High power CDI and inductive ignition modules.
SENSORS & ACCESSORIES

Sensors and accessories to read all kinds of data, from the engine’s temperature to the suspension travel.

With 6ft blank harness

SparkPRO-1: #0016
SparkPRO-2: #0017
SparkPRO-3: #0018
SparkPRO-4: #0019
SparkPRO-5: #0020
SparkPRO-6: #0021
SparkPRO-8: #3161

Without Harness

SparkPRO-1: #3326
SparkPRO-2: #3327
SparkPRO-3: #3328
SparkPRO-4: #3329
SparkPRO-5: #3330
SparkPRO-6: #3331
SparkPRO-8: #3332

IGNITIONS

• Versions from 1 to 8 ignition outputs
• High voltage at the coil’s primary: up to 430V
• Compatible with any programmable ECU that has dwell control

Bobina Racing CDI: #5218
Bobina Smart Coil: #5632

• Use with individual coil per cylinder and also rotary applications
• 125 Amps of current
• Best used with alcohol and nitromethane
• Only compatible with FuelTech FTSPARK

• 175mJ @ 9ms Dwell and 14V
• High spark discharge duration
• For direct connection to the ECU’s output with no need for external igniters
• Recommended for sequential ignition and individual coil per cylinder applications

FuelTech Smart Coil with built-in igniter

• Versions from 1 to 8 ignition outputs
• High voltage at the coil’s primary: up to 430V
• Compatible with any programmable ECU that has dwell control

Bobina Racing CDI: #5218
Bobina Smart Coil: #5632

• Use with individual coil per cylinder and also rotary applications
• 125 Amps of current
• Best used with alcohol and nitromethane
• Only compatible with FuelTech FTSPARK

• 175mJ @ 9ms Dwell and 14V
• High spark discharge duration
• For direct connection to the ECU’s output with no need for external igniters
• Recommended for sequential ignition and individual coil per cylinder applications

FuelTech Smart Coil with built-in igniter
Pressure Sensors
High precision sensors to read pressure of any kind of fluid or gas on the engine
- Reads pressure on all kinds of fluid or gas (oil, fuel, water, boost, exhaust back pressure, etc)
- Output signal: 0.5-4.5V or 1-5V
- Feed voltage: 5V or 12V
- Versions: 0-150psi, 0-300psi, 0-1500psi, and 0-10bar
- PS-150, PS-300 and PS-1500 are compatible with PowerFT line
- PS-10B is compatible with all the FT products

Wideband O2 Sensor
Compatible with any FuelTech wide band conditioner (WB-O2 Nano, Alcohol O2)
- Can not be used with leaded fuel, diesel or 2 stroke engines. The sensors life span will be drastically reduced or it will be quickly damaged
- Sensor thread: M18 x 1.5mm

Alcohol Wideband O2 Sensor
Wideband sensor designed for high accuracy and low AFR
- Must be used with FuelTech Alcohol O2 wideband signal conditioner
- Not compatible with FuelTech WB-O2 Nano
- Sensor thread: M18 x 1.5mm
- Thrench size: 23mm

FuelTech Emblem
- Chrome FuelTech logo
- Automotive 3M double-sided tape
- Dimensions: 4.69" (118mm) x 1.3" (33mm) x 0.18" (4.5mm)

Suspension Travel Sensor
The best way of monitoring your vehicle`s suspension and body movements
- Available in versions of 4 and 8 inches of travel
- Can be used with any FuelTech PowerFT ECU
- 4” Travel Sensor:
  - Total Travel: 4”
  - Length Closed: 3”
  - Length Extended: 13”
  - Mounting: 3mm Heim joints
  - Cable Length: 41”
- 8” Travel Sensor:
  - Total Travel: 8”
  - Length Closed: 13”
  - Length Extended: 21”
  - Mounting: 3mm Heim joints
  - Cable Length: 41”
  - Voltage/Output:
    - Supply voltage: 5V
    - Signal Output: 0.5V - 4.5V
- Shifter lever with the GearController sensor already installed
- For use with G-Force long style shifter transmissions
Pan Vacuum Sensor
Used to read positive or negative pressure on the oil pan
- Signal output: 0.5 - 4.0V
- Sensor thread: 1/8” NPT
- Reading range: ±10psi

Driveshaft Sensor with Bracket
Used to read driveshaft RPM and vehicle speed signal on RWD vehicles
- Non-magnetic driveshaft sensor
- Available in 5/16-24” and 3/8-24” thread sizes
- Connector and pigtail included
- 120” long from end of sensor
- Used with magnetic collars - 8 magnet split collar is recommended

Hall Effect RPM/Speed Sensor
Used to read crank, cam, wheel, and driveshaft speed
- Compatible with PowerFT ECUs and GearController

Spark Plug Gapper
Save time and precisely gap your spark plugs with our new billet spark plug gapping tool.
- The FuelTech spark plug gapper is recommended for the adjustment of the distance between the center and ground electrodes
- Sturdy tool with threaded adjustment and standard fitting for spark plugs
- Hardened steel grip and thread ensuring high resistance and durability
- Black anodized aluminum body with engraved FuelTech logos

Plug and Play Harnesses
Complete, ready-to-install wiring harnesses for fast and painless installations
- High-quality, high durability relays
- Connector for PowerFT line ECUs
- High precision, detailing and fabrication standards
- Available in 8 or 16 injectors configuration
- The PRO600 Harness is a modular harness and by using the appropriate adapter harnesses you can use it for almost any V8 application
- Check out www.fueltech.net for our latest list of harness offerings

Connector Kits
- Recommended for those who have upgraded to a new ECU and want to modify their existing harness for the new connectors.

Adapter Harnesses
- Plug and play adapter harnesses are the fastest way of using a new ECU on an existing installation.

www.FuelTech.net
FT500 steering column bracket: #1851
FT500 cage bracket: #2214
FT450 and FT550: #5925
FT600: #2214

- Bracket kit designed to mount 4 FuelTech CDI Coils
- Made from lightweight billet aluminum, only 13.1 oz
- Includes (4) 1/4” socket head cap screws to mount the coils to the bracket
- (4) 1/4” threads in the back, front, and bottom for mounting to the chassis

Use for up to 4 CDI Racing Ignition Coils

FuelTech CDI Coil Bracket Kit

Dash Mount Panels
Perfect finishing for your vehicle. Can be cut to any shape of dashboard cluster

- Made from high quality ABS
- Black finishing, allowing painting and/or wrapping
- Up to FT500: 17.7” x 11.8” x 1.3” / 450mm x 300mm x 33.1mm
- FT450 and FT500: 17.7” x 11.8” x 1.5” / 450mm x 300mm x 38.5mm
- FT600: 17.7” x 11.8” x 1.7” / 450mm x 300mm x 42.6mm

- Made from high quality ABS
- Black finishing, allowing painting and/or wrapping
- Up to FT500: 17.7” x 11.8” x 1.3” / 450mm x 300mm x 33.1mm
- FT450 and FT500: 17.7” x 11.8” x 1.5” / 450mm x 300mm x 38.5mm
- FT600: 17.7” x 11.8” x 1.7” / 450mm x 300mm x 42.6mm

- Extremely lightweight and durable
- Manufactured in billet aluminum CNC machined
- Available in black

Boost Controller Injector Block
Fuel injector support block used with the integrated wastegate boost control function of the PowerFT line ECUs

- Made from high quality ABS
- Black finishing, allowing painting and/or wrapping
- Up to FT500: 17.7” x 11.8” x 1.3” / 450mm x 300mm x 33.1mm
- FT450 and FT500: 17.7” x 11.8” x 1.5” / 450mm x 300mm x 38.5mm
- FT600: 17.7” x 11.8” x 1.7” / 450mm x 300mm x 42.6mm

- Made from high quality ABS
- Black finishing, allowing painting and/or wrapping
- Up to FT500: 17.7” x 11.8” x 1.3” / 450mm x 300mm x 33.1mm
- FT450 and FT500: 17.7” x 11.8” x 1.5” / 450mm x 300mm x 38.5mm
- FT600: 17.7” x 11.8” x 1.7” / 450mm x 300mm x 42.6mm

- Extremely lightweight and durable
- Manufactured in billet aluminum CNC machined
- Available in black

- Rubber mount kit included (2 rubber mounts, 2 washers, 4 nuts)
- Must be used with high impedance and high flow injectors (above 50lb/hr).
  For better efficiency, the Bosch 170lb/hr (0280158827) and Bosch 210lb/hr (0280158821) injectors are recommended.

- Simplify installation of your FTSPARK with our chassis mounting bracket.
- Available sizes: 1.375”, 1.500” and 1.625”
- New design allows mounting it horizontally or vertically

- Dual valve block for PowerFT ECU integrated boost controller
- Suitable for use with CO2 or manifold pressure
- Precise wastegate pressure control
- Valves support up to 150psi
- Lightweight aluminum valve block
- Compact design for tight engine bays
- High reliability
FT APPAREL

Hoodies, shirts, caps, beanies and much more for you to wear your passion for motorsport in the highest quality.

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FuelTech Unisex Flag Shirts

USA

Puerto Rico

Australia

Germany

FuelTech Shirt

Men

Women

FuelTech Kids

T-shirts

Kids

Sweatshirt