FTEX

Feel the difference

Product Catalogue

2023

MISSION

FTEX is committed to making electric vehicles **more efficient and connected**. We believe in creating the **first operating system** for light electric vehicles.

FTEX provides OEMs with a full, plug-and-play electronics and software suite, including an IOT capable motor controller, mobile app, and analytics. With FTEX, traditional OEMs can quickly leapfrog their competitors and offer modern vehicles without increasing R&D time and costs.

OUR STRENGTHS

More Integration
Innovative hardware and operating system for light electric vehicles

More Power
GaNFETs and control algorithms efficiently implemented

More Range
Fewer power losses thanks to our motor control algorithms

Better Experience
Exceptional motor control algorithms and unbelievably smooth acceleration

We work with the most innovative OEMs
We work for e-scooter, e-bike, e-moped and e-motorcycle makers who are integrating the hardware, software and connectivity features of their vehicles into a single energy efficient solution.

1st

The world's first operating system for light electric vehicles with a **fully connected** GaN-Powered motor controller.

FTEX

Smart and Connected Drive System

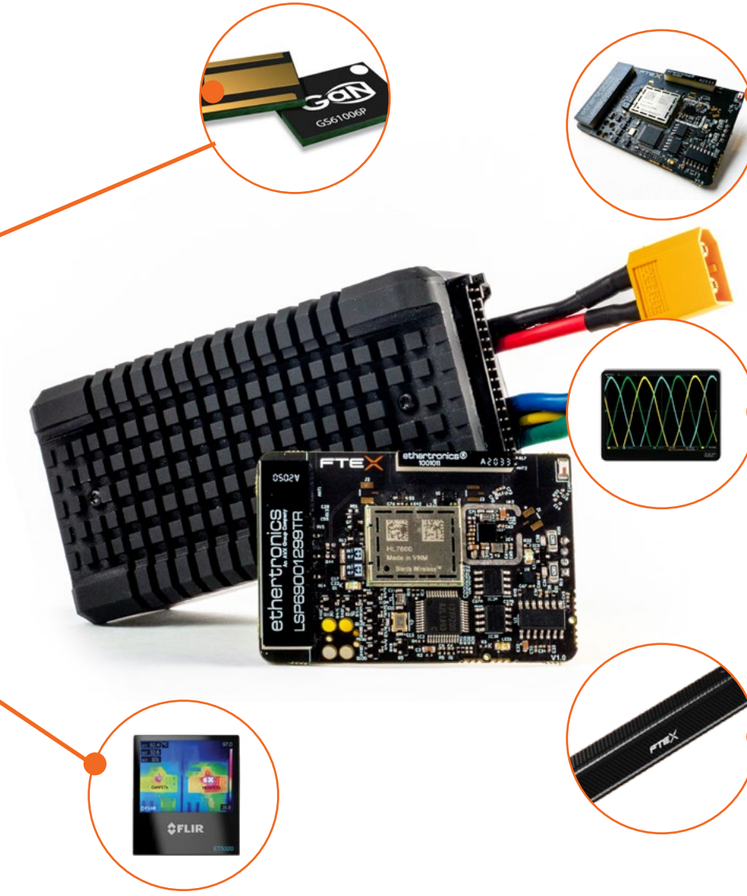
FEATURES

Benefits of GaNFETs

GaNFETs offer better efficiency and higher power density than legacy MOSFETs. With GaNFETs, FTEX can offer **more power** in a **smaller package** with **better thermal management** and **fewer thermal shutdowns and failures.**

Safety and Reliability

FTEX controllers offer **active thermal management** and **multi-level fail safes** increasing reliability and safety while reducing failures.



Complete IoT Integration

All of our controllers come with complete Internet of Things integration with **LTE, GNSS (GPS)** and **Bluetooth connectivity.**

Sine Wave Controller

Optimized software to enable clean F.O.C. sine wave control for **higher efficiency** and **smoother acceleration.**

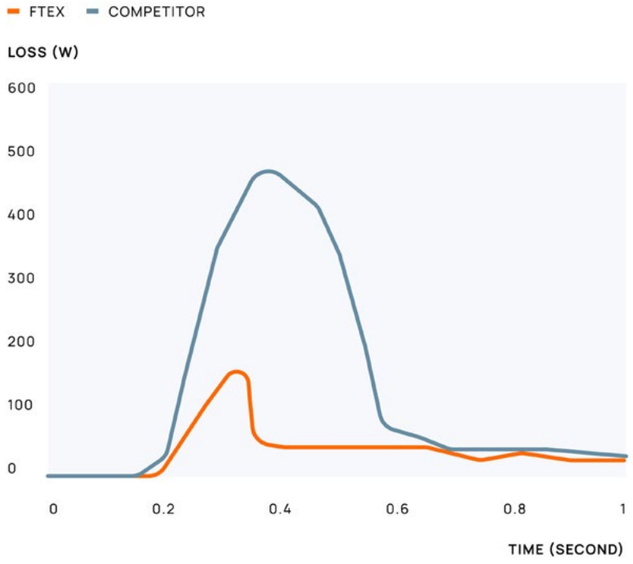
More Range

Go farther with less weight and fewer batteries. Our innovative power management systems extend your vehicle's range by up to **10% compared to conventional motor controllers.**

OUR EDGE

FTEX advanced power electronics results

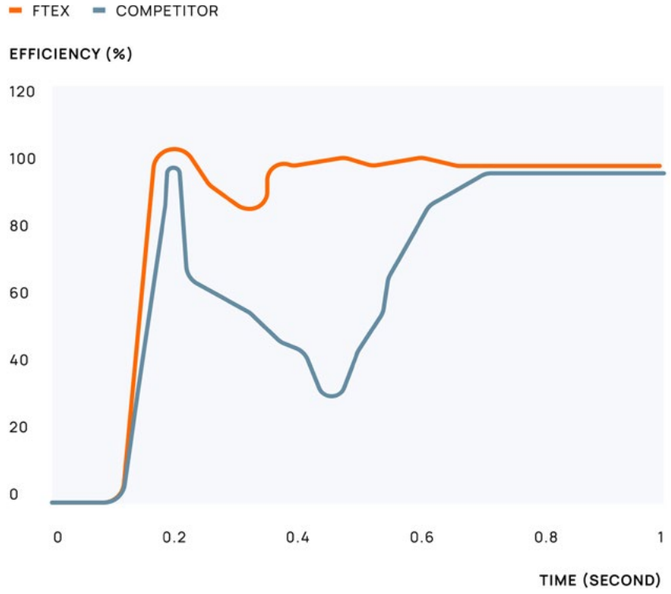
POWER LOSS FTEX VS COMPETITOR



40% Energy savings during acceleration

Up to **10%** more battery range

POWERTRAIN EFFICIENCY FTEX VS COMPETITOR



A MORE PROFITABLE OPERATION

1. We increase up to 10% per charge
2. Reduce charging down time and cost
3. Increase profit per ride

40,000 Scooters averaging 5 rides per day

Without FTEX	With FTEX
Charging cost/ride: $0.86	Charging cost/ride: $0.77 **10%**
Daily charging cost of fleet: 172K	Daily charging cost of fleet: 154K

→ **18k in saving per day / 6,6 million per year**

Dockless e-scooters ride share implementations are booming around the world, however, the cost of picking up and charging these fleets represents that single largest cost of operations.

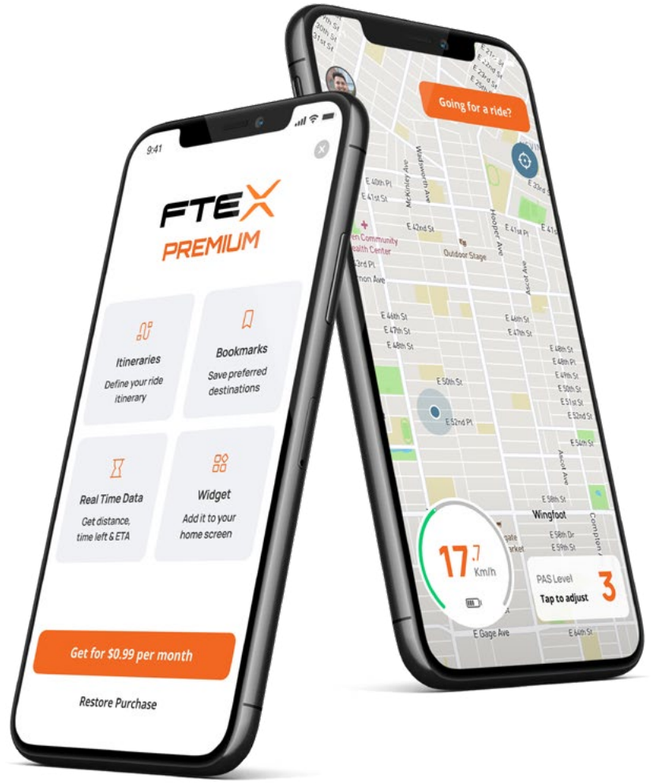
FTEX
Evionics

Instant Diagnostics

Get instant diagnostics on your controller and EV and make sure everything checks out before every ride.

Over the Air Updates

Ensure that your users always have the latest and greatest firmware. FTEX offers long term support for all our products.



Smart route navigation

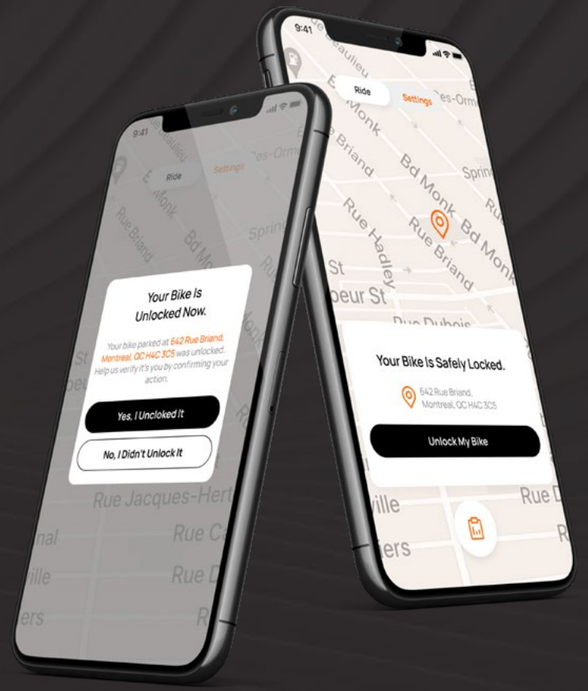
Offer the FTEX app to your users, with live telemetry and smart route navigation to get them where they need to go, safely.

Safety Collision Detection

Keep riders safe with automatic collision detection that alerts a friend, partner or emergency services automatically.

Remote Locking

Allow users to lock and unlock their bikes automatically, remotely, from anywhere in the world.



GPS Tracking

With FTEX, users never lose track of their ride.

Specifications

Single Motor Programmable Controller*

Power	1500W @ 48V
Motors supported	BLDC
Drive Train supported	Single hub motor
Voltage	28V to 72V (Max 84V) DC
Continuous Current	50A
Peak Instantaneous	75 A-RMS
Peak Acceleration	60 A-RMS
Mean	35 A-RMS
Communication	UART/CAN BUS
Motor control scheme	Sinusoidal field oriented (FOC)
Control Method	FOC sinusoidal

Dimensions

LW (W/WIRES)
210

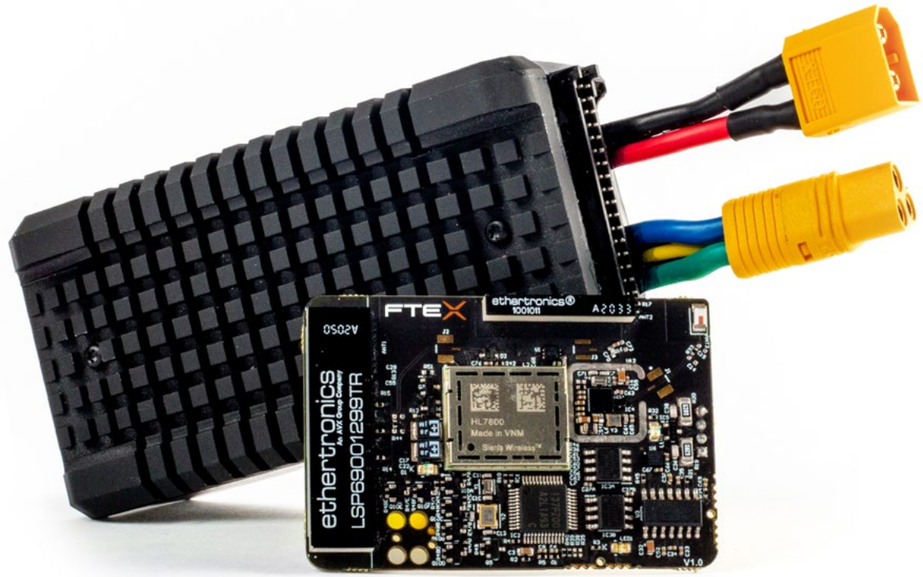
W (mm)
50

Weight (g)
375

L (mm)
100

H (mm)
36

* Possibility to use as a modular controller and to extend for multiple motor vehicles using CAN BUS



IoT Module

Networks	BLE, LTE, GNSS
Compatible with	FTEX eBike SDK (iOS available, Android pending) Out-of-the-box compatibility with the FTEX app

Dimensions

L (mm W/Grommet)
112

L (mm)
100 mm

W (mm)
43

H (mm)
15

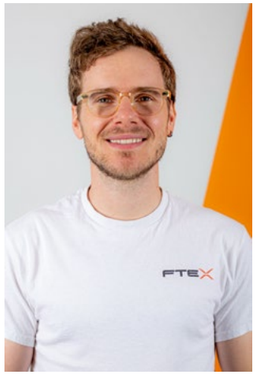
Customer Success Team

Ramee Mossa
Co-Founder & CEO

ramee.mossa@ftex.ca
+1 514-652-4738

Silvana Huaman
Co-Founder & CRO

silvana.huaman@ftex.ca
+1 514-466-3839



François Léger-Bélanger
Co-Founder & CPO

francois.leger@ftex.ca
+1 514-464-3839


FTEX
ftex.ca