ALIENTECH®
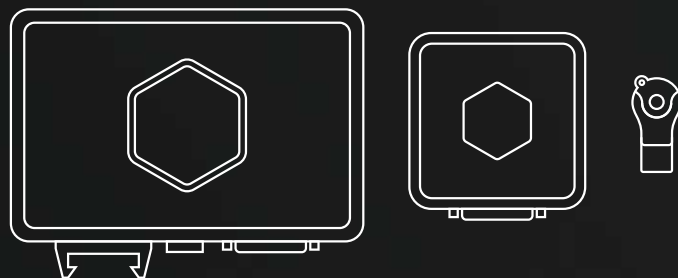
ALIENTECH®

We are a company that, for thirty years, has been inventing and producing the best technologies applied to tools and software for recalibration and mechatronics.

These years of hard work have granted us to transform a small provincial business into a multinational company with offices and dealers all over the world.

Foresight has allowed us to be always one step ahead, and awareness of our origins has made us what we are: a rapidly expanding economic reality, with great goals still to be achieved and realised.

+ 80
ENTHUSIASTIC WORKERS

+ 120
**COUNTRIES AROUND
THE WORLD**

+ 70.000
**TOOLS FOR
MECHATRONICS SOLD**

+ 100.000
SUPPORTED VEHICLES

Vision

We don't limit ourselves to what we can do now. We have a bold vision of the future of chiptuning and workshops around it, this drives us every day to work on creating the technology we will need to make that future a reality. But that's not enough.

Like us, you are a professional who is passionate about your work. Each of your intervention is, yes, a source of income, but it is also customers' satisfaction with new perspectives opening up in front of you, because what drives you is passion, the same passion that made you start and choose our tools.

This is the engine that keeps you going towards the future with determination and planning. Innovation, technology, being competitive and reaching goals before the others are fundamental conditions.

But without passion the result will be incomplete. We are different from everyone else in the industry: we never forget who we are and how we started.

Evolution

We work together with you every day to provide you with high-quality tools, software, services, and training so that you can be or become a complete professional capable of making a difference in a competitive industry with a high density of technologies, but still, and above all, driven by a passion for tuning.

We know how important it is to be fast, provide immediate responses, and meet needs and requirements even before they become real. We are very familiar with your daily reality, and through dialogue and discussion, we can offer you the best service for your workshop every day.

We work tirelessly, alongside you, to provide you with everything you need to make a difference in this industry, which is made up of machines, of course, but also, and above all, of people

ECU and TCU programming via OBD connection, Bench and Boot mode

KESS3

All in one for a unique tool.

Thanks to thirty years of experience and nearly three years of design, KESS3 is the most advanced and visionary engineering achievement ever conceived for the world of chiptuning.

KESS3 is the choice for change: we have created something unique and extraordinary that has no

equal in the market in terms of features, affordability, and versatility. KESS3 has been developed to enable anyone, from young motor enthusiasts to highly specialized mechatronics technicians, to have a simple and faster-than-ever interface with any engine control unit and automatic transmission available in the market.

Sensational performance, high operational flexibility, and ease of use allow for connection and intervention with original equipment manufacturer control units using a single tool.

The most comprehensive vehicle list ever.

Hundreds of thousands of vehicles are at your disposal, not just ECUs, but also TCUs and other control units installed in cars, motorcycles, tractors, trucks, special vehicles, and boats.

Easily consult our Vehicle List and discover which vehicles are supported.
All connection protocols and details for each vehicle are always available to you.

| Car | Bike | Tractor | Truck | Marine |

| + 12.000 | 9 LANGUAGES | + 100.000 | + 3.000 |
| ECU and TCU TO WORK ON | AVAILABLE INTO THE SOFTWARE | VEHICLES TO BE REPROGRAMMED | AVAILABLE PROTOCOLS |

Highly successful tools that have served thousands of workshops over 30 years.

1996 . ECU MANAGER

ECM becomes real: operating on a DOS system, ECM is equipped with many functionalities to identify and modify engine management maps.

1997 . BIT POWER

BitPower was born, the first Eprom emulator to modify engines in real time.

1997 . STEKIO

STEKIO was born, the tool that allows you to verify the stoichiometric ratio in exhaust gases.

2002 . KESS

KESS, the tool that communicates with the engine control unit via the diagnostic port.

2004 . POWERGATE

The first individual tool for programming your own control unit.

2005 . BDM PRO

The first tool to read, program, backup and restore the microprocessor, EEPROM and FLASH memory.

2008 . ECM TITANIUM

ECM Titanium, an evolution of ECM, revolutionises the work of remappers by offering easy-to-use, always-ready software in a convenient USB stick with 8 GB of memory.

2009 . KESSV2

KESSv2 was born, the technological evolution of the system Alientech dedicated to serial communication with the engine control unit.

2011 . KTAG

K-TAG is released, the new ECU programmer to work on bench that integrates together the communication lines J-TAG Nexus and Renesas, BDM Motorola MPC5xx, Mitsubishi Bootloader Infineon Tricore Bootloader and ST Bootloader.

2022 . KESS3

Introducing KESS3. The ECU and TCU programmer through OBD, BENCH, and BOOT connections. All working modes merge into one tool.

2024 . POWERGATE

The new Powergate. Reprogram the ECU and TCU of a single vehicle directly from your smartphone.

Choose your work mode.

KESS3 combines 3 connection modes in one single tool. OBD, Bench and Boot Mode. Configure it according to your needs and your work. Regardless of your level of experience in reprogramming operations, KESS3 provides you with the maximum flexibility.

With KESS3, everything changes: you will have a single hardware. During the tool's initialization, you decide which of the three modes best suits your work, and you decide how to configure the tool. And if your requirements change? No problem, you can change it at any time.
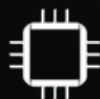
OBD

With OBD mode, easily access all data in the FLASH memory via the diagnostic socket. Read and write without opening the ECU.

BENCH

Access all data written in the ECU directly from the connector. Read, write and clone without opening the ECU.

BOOT

With the control unit open, you can discover all the secrets of the system memories.

Master or Slave?

Flexibility is renewed. KESS3 is configurable as desired. One single hardware without distinctions between Master and Slave. At the moment of the tool's initialization, you decide which one to start with!

Master.

The configuration that will allow you to work on calibrations completely autonomously. You will be able to read all types of files and write them after modifying their values with your recalibration software.

Slave.

If you are not yet completely autonomous in working on calibrations, with this version you can read and rely on a network of master tuners who will assist you by creating a modified file that you can write at any time.

Dealer network.

If you want to create a network of your own, Alientech offers you a reliable and easy-to-use tool to create a community of enthusiasts, who operate efficiently in the marketplace. Expand your network and create your business!

A new electronic architecture.
30 years of experience and passion take shape.

Alientech has been designing and developing tools to interface with control units since 1991.
Driven by our lifelong passion, we have packed all our design experience into this new tool.

Every aspect of the KESS3 has been carefully studied in the pursuit of performance, operational flexibility and ease of use.

Its renewed architecture exploits the performance of every component: a new microprocessor, latest generation I/O interfaces, new built-in sensors, high-performance EEPROM and FLASH memories make the KESS3 the best tool on the market.

The heart of KESS3: the microprocessor.

7 times more powerful than the previous generation, it is the most powerful processor on the market.

Pure power to execute your commands with maximum efficiency, without any hesitation.

One entry, all lines of communication.

KESS3 automatically and instantaneously recognises the right communication line to work correctly, using just one OBD cable.

Ethernet, FlexRay, CAN Bus, K-Line, L-line, J1850, J1708. All indispensable communication lines are at your disposal.

Projected into the future.

GPS, Accelerometer, Bluetooth and Wi-Fi, all incorporated in a single platform. The combination of these components and constant technological developments will enable the development of numerous new functionalities in the future.

Performance.

Full speed USB chip increases file import/export performance from and to KESS3 by up to 10 times. But that's not all: new technical infrastructure for online service delivery. The result?
New Alientech Cloud with lightning-fast performance allowing instant updating of communication protocols.

Innovative design

Fibreglass-filled nylon design.
Strength and durability for your workshop.

The shell design of the KESS3 is completely new.
We strongly desired to valorize it by searching for the best materials to use. Designed to provide you with versatile and resistant mobility, thanks to the durability of the materials.

KESS3 is built around a fiberglass case that provides it with lightweight and flexibility. An ergonomic shell, resistant to shocks and vibrations. A tool of exceptional robustness and portability, usable anywhere.

PLASTIC - 100% RECYCLED

The KESS3 case derives from military studies and applications.
Made entirely from recycled plastic material, it is designed with top-side compartments for easy storage, a pressure valve for air travel, and snap closure for maximum security.

KESS3 never travels alone but with all the accessories you need to work with.

Fully updated software

Alientech Suite.

Such advanced
new hardware
has inspired
us to design
software that
would exploit its
full potential.

A completely
renewed suite,
in design and
in functions.

New design.

Essential look, clean design, everything you need is already there. Suite updated to be functional, usable and easy to use.

Performance.

The new search function is instant and responsive, allowing you to access both the vehicle list and search for any supported control unit by microprocessor in just a few moments. Download and updates now occur in fractions of a second.

Technical support.

Direct access to the Alientech help desk for support requests in all stages of work and access to all development news.

User experience.

A completely new working experience. An intuitive dashboard with simplified access, plus the possibility of creating a list of favourite vehicles and viewing their history on the vehicles already interfaced.

Vehicle and control unit database.

We update the list of protocols and vehicles daily. Always accessible, the technical operating manuals are understandable and exhaustive, translated into several languages to support you in the most delicate interventions.

The portable recalibration software

ECM Titanium

The performance configurator for motor vehicles.

ECM Titanium is the recalibration software developed by Alientech that allows you to view and independently modify the management parameters of any original engine and automatic transmission file.

Remapping the ECU means altering the data written by the manufacturer inside the dedicated memory for engine/automatic transmission management to enhance overall performance. The driving experience can be completely customized according to your customer's needs.

Not only more torque and power, but also significant fuel savings will give character and efficiency to any motor vehicle. Thanks to its features, ECM Titanium will allow you to act with simplicity and immediacy in various operations related to modifying the values written in the ECU: improving performance, repair, and cloning.

The power of information will be in your hands, and with ECM Titanium, you can make the most of it.
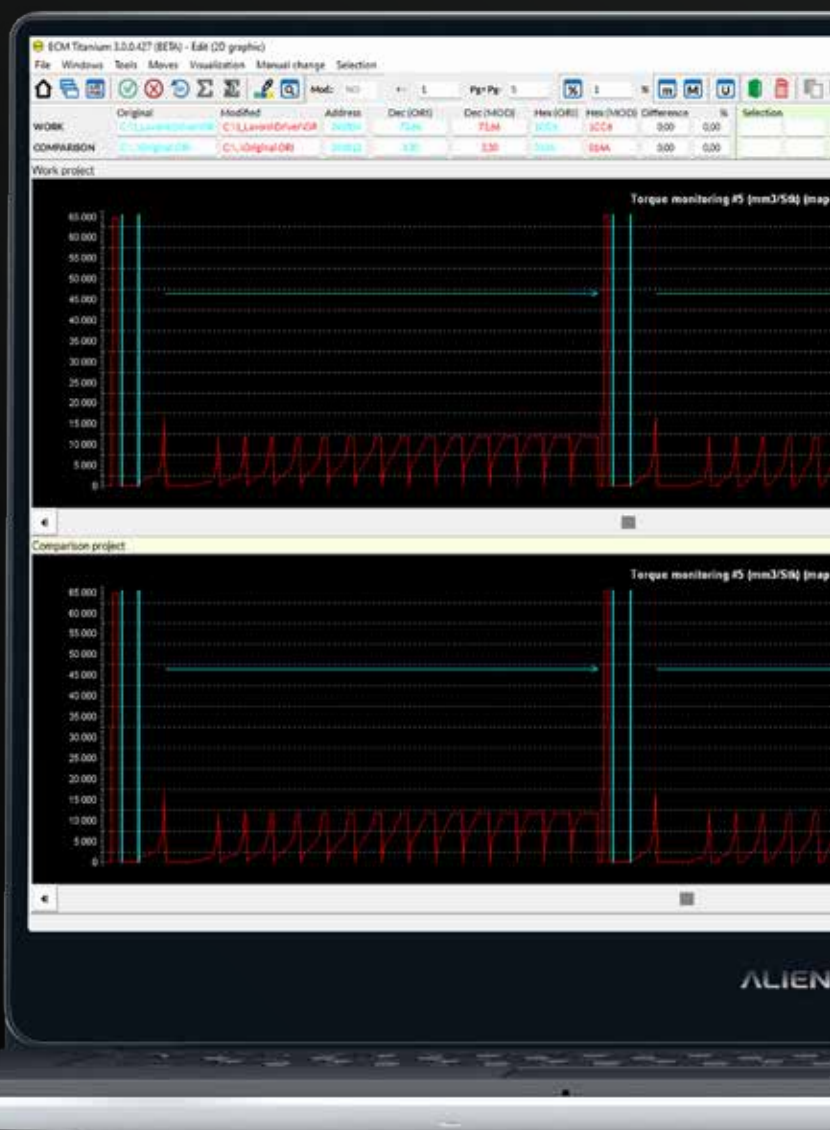
At work.

The recalibration process.

The recalibration of a control unit is a process that Alientech continues to perfect over the years, developing products and services to enhance the working experience of its customers.

To start, it is necessary to connect to the control unit with hardware capable of handling the exchange of information. Through a communication protocol specific to each control unit, the information stored into the memory, which contains the operating parameters, will be read, allowing a complete display of the values that will later be modified to achieve the best result in terms of performance.

From here, ECM Titanium will allow you to proceed with the recalibration. Lastly, you will only need to overwrite the newly processed parameters and make the revolution come to life.

Configuration

ECM Titanium full.

Limitless recalibration.

It is the complete offer with dedicated technical support and up to 100 Driver downloads per day for cars, motorcycles, tractors, trucks, and boats.

You can also request up to 5 original files, 3 new Drivers, and updates to the Driver list as well as the software itself.

With ECM Titanium full, you have everything at your disposal, and you can remap without worries, as and when you want: without limits.

Configuration

ECM Titanium credits.

Recalibration on demand.

Do you need a Driver to work on a single control unit that is not included in your vehicle category?
Do you need to remap a single vehicle that comes into your workshop?

With ECM Titanium Credits, you can selectively perform the operations that interest you the most. With this function, you always have control over what you are doing, and if you need more credits you can increase them according to your needs.

Technical Support.
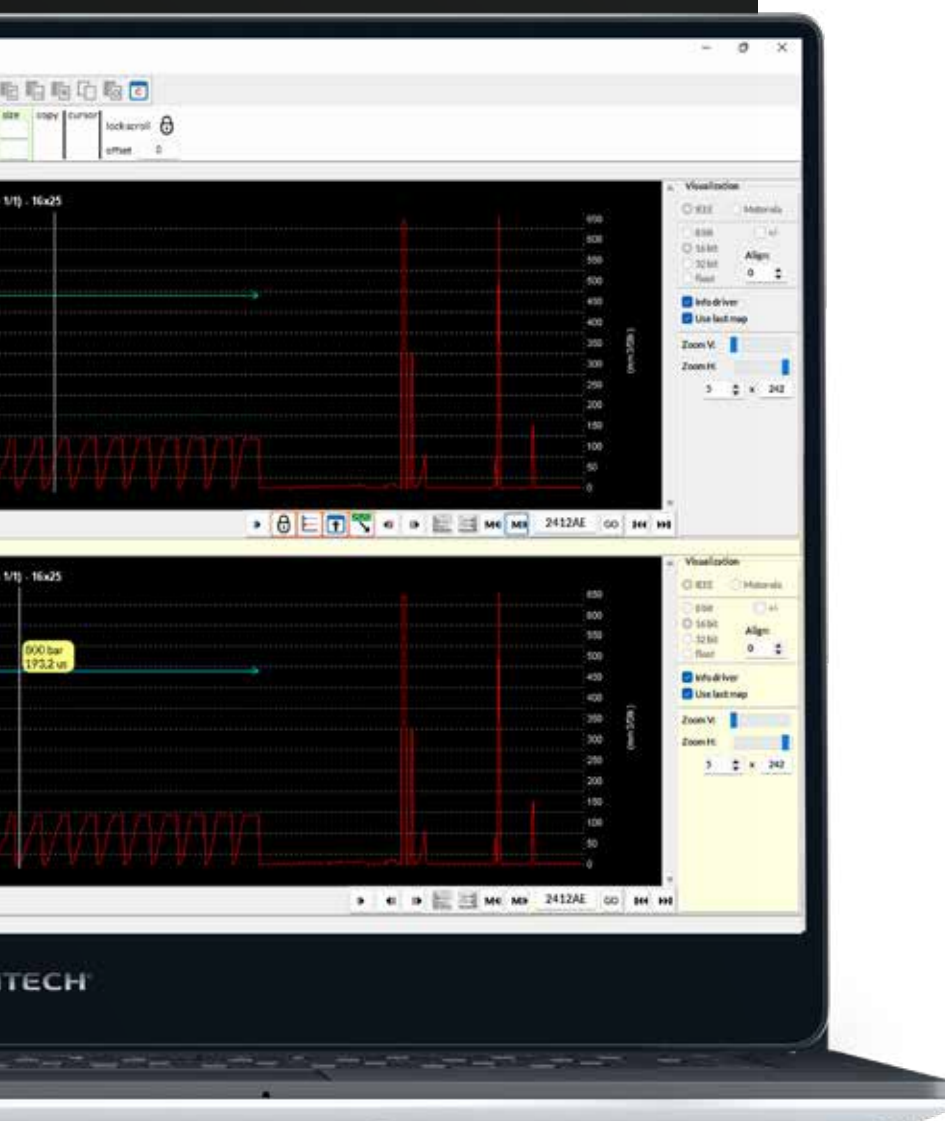
The Alientech team, at your service.

To assist you at every stage, teams of highly skilled and experienced technicians are at your disposal to guide you through all operations, from the simplest to the most complex, starting with the request to create Drivers not yet present in the database.

Through a structured ticketing system, you will be able to request and receive assistance before, during and after the job, an added value that few others can offer you.

The support team will also solve the most common problems related to the use of the software and in specific cases it will be able to handle more complex requests, caused by a lack of communication protocols or critical issues related to file processing errors.

Contact Alientech support:
https://databank.alientech.to/ticket

Immediate

Raising the standard of remapping.

The recalibrations with ECM Titanium are astonishing in terms of processing simplicity and effectiveness in results. Versatile, reliable, and easy to use, it is compatible with files from every read, of any vehicle: right from the first screen, you know where you are and what you can do.

Thanks to its structure, you can edit files by following three different paths, all leading to the same result: download a Driver from the Alientech database, work directly on the 2D graph or work through the 3D view to create your new calibration.

Versatile

Work when and where you want.

With ECM Titanium you can download the updated list of Drivers directly from the Alientech database; they will be yours forever and you can also use them offline, allowing you to recalibrate at any time. The peak in software portability is in the function of storing and saving all the files on the ECM Titanium Dongle.

Thanks to this feature, you will always have the files at your fingertips inside the dongle to work on any PC! Just select the stored original file to find all the modified files created and associated with it. The goal is to provide you with software that is always available, which you can use online and offline according to your preferences.

You decide how to manage your work; we give you the right tool to do it.
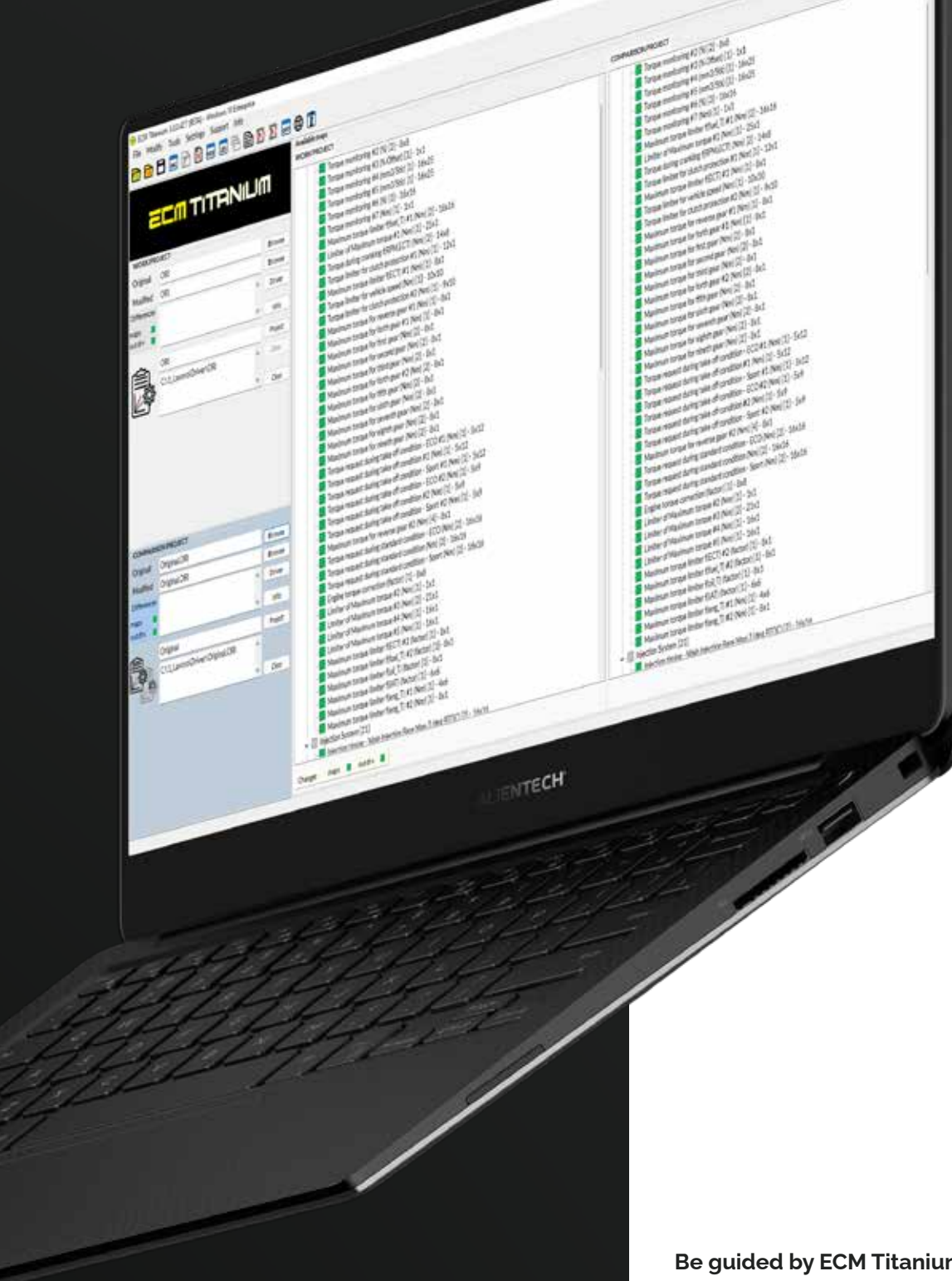
Complete

It meets every operational requirements.

One easy and intuitive software environment.

With ECM Titanium you have a database of over 130,000 Drivers and original files available for download every day.

An entire department is at your service to update existing Drivers and produce new ones based on your request.

Enhancing your desire for chiptuning.

Get into the groove of calibration with ECM Titanium's graphs! Thanks to the 3D mode, ECM Titanium will create a three-dimensional chart per map, which will not only allow you to view the entire modification status, but also allow you to set values directly on the chart.

That's not all. For more experienced tuners, it will be possible to work with the full 2D view of the original file. In this way you will be able to configure every single part of the file to your liking, unlocking a new step.

Be guided by ECM Titanium Drivers.

By associating a Driver to the original reading, coming from ECU or TCU, you will be able to modify the useful portion of the file, selected by our technicians, in order to carry out a quick and effective recalibration.

The 'plain text' maps contained in the ECM Titanium Drivers will enable you to recognise all functions immediately thanks to an accurate nomenclature, divided by category of use.

Opening the individual maps (e.g.: rail pressure) will also display the table with the engine and automatic transmission operating values with the respective unit conversions. (e.g.: psi)

You have everything you need to work easily and never so fast!

Unlock your vehicle's performance

Powergate

Full customization whenever and wherever you want.

Customizing performance with a simple touch on your smartphone? It's not science fiction; it's Powergate: the innovative solution for improving your vehicle's performance or reducing fuel consumption directly from your smartphone through the Powergate App for Android, iOS, and EMUI (Huawei).

Powergate allows you to work via OBD on a single vehicle chosen from a wide range of supported models, sharing the same protocols as KESS3, using both an internet connection for the Cloud and Bluetooth for communication with your smartphone. This advanced technology ensures smooth and secure communication between the device and the vehicle at all times.

With Powergate, living the experience of a real professional is within everyone's reach.

Configurations

Up to 4 files.

With Powergate, the User can modify their vehicle's control unit up to 4 different configurations created according to their chosen specifications, plus the original file, which allows them to revert the vehicle to factory settings at any time. It can be done with a single tap on their smartphone.

Remotely upload your modified files directly from the dedicated section in the Powergate Dashboard and unlock the potential of every vehicle.

Becoming a Powergate Manager gets you to grow your business and enhance your Users' passion for your tuning.

Connected

The Powergate App.

Intuitiveness, control, and fun.

The Powergate App is the application designed to use Powergate directly from your smartphone. It is extremely intuitive and accessible on Google Play, App Store, and Huawei AppGallery.

Its main goal is to simplify the procedure for Users as much as possible, from initial registration to association with the tool, up to reprogramming.

After downloading the app, Users are immediately introduced into the Powergate world.

Just create a profile with your ALIEN_id to associate the tool with your smartphone and start a reprogramming session.

In addition to guided control of operations, the Powergate app also offers a dedicated User section where you can customize your settings, such as language or profile details.
Additionally, remote support is always available, ensuring Users never feel alone.

Available on the
App Store

GET IT ON
Google Play

EXPLORE IT ON
AppGallery

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Dashboard: your cloud control panel.

The Dashboard is the control panel for your Powergate, created specifically for you.
It is organized into sections, each with specific functionalities:

Sessions: in this section, it is possible to monitor the status and number of active, archived or ongoing session for each associated Powergate. It is also possible to upload modified files and manage their access levels.
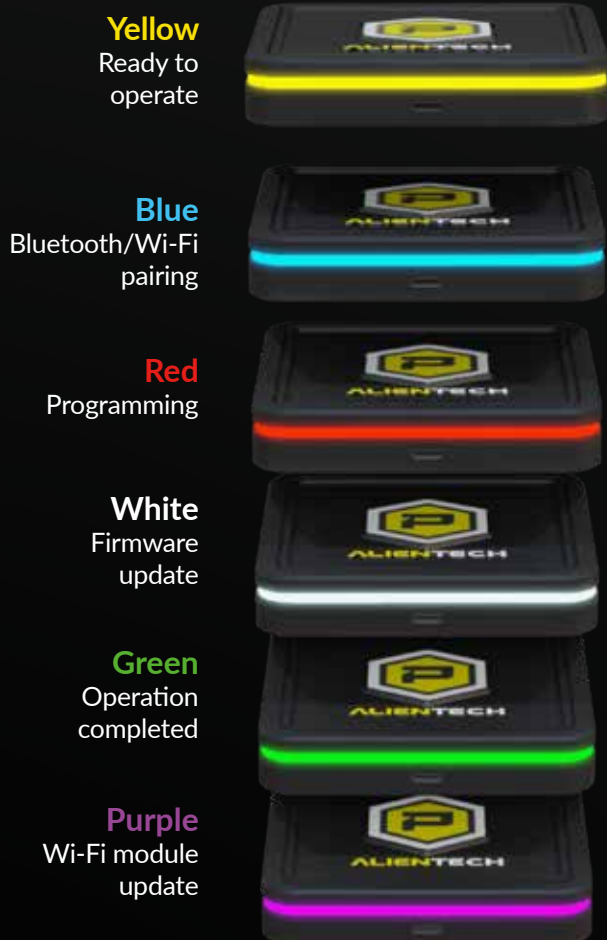
Devices: this section allows the independent management and customization of associated Powergates and the registration of new ones

Templates: this section allows the Powergate Manager to create and customize the skins and vehicle lists. Both can be later contained in a Template which can independently be assigned to each registered Powergate.a custom skin to make it truly yours.

Accessories: this section allows the Powergate Manager to quickly and precisely check which cable is needed for the User to connect to its vehicle.

AlienCloud: in this section, it is possible to view and organize modified files uploaded to the Cloud by simultaneously monitoring the storage space still available.

To access the Dashboard, simply create an account by entering your email address and password. Once logged in, you will have full access to all the features and resources offered by the Powergate Dashboard. Everything becomes easier, especially in search and navigation operations, thanks to cross-search functions. Navigation is intuitive and allows you to maximize efficiency and ease of use of Powergate.

Yellow
Ready to operate

Blue
Bluetooth/Wi-Fi pairing

Red
Programming

White
Firmware update

Green
Operation completed

Purple
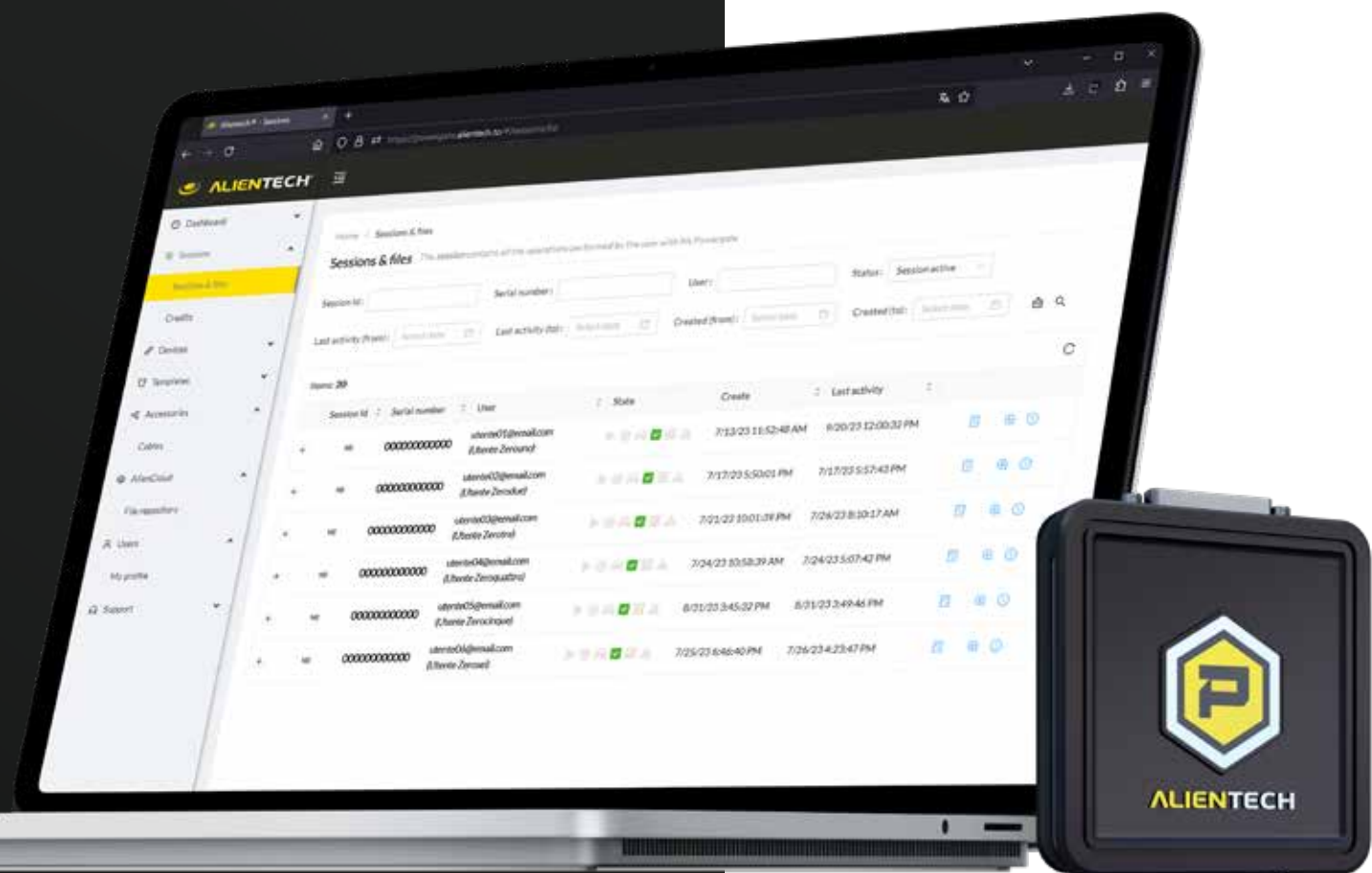Wi-Fi module update

On-demand monitoring.

Get full control.

Thanks to the status bar in the Powergate Dashboard, you have a real-time monitoring tool that provides an instant overview of ongoing activities and results. The bar represents six key states with intuitive icons, making it easy to monitor ongoing operations.

- **NEW:** start of a session.
- **DEVICE ASSIGNED:** assignment of a device to Powergate.
- **VEHICLE ASSIGNED:** association of a vehicle with Powergate.
- **ACTIVE SESSION:** the User or the system is working on data or operations.
- **ARCHIVED SESSION:** session completed and results recorded.
- **ERROR:** alert of problems during an operation.

Each session begins when a User selects a vehicle from the vehicle list.
From this moment, Powergate establishes a connection, specific to the chosen vehicle, allowing operations such as identification, reading, and writing of the ECU and, if necessary, the TCU.

Unique
Custom Skin.

Customizing the Powergate App skin offers you a powerful tool to establish a closer relationship with Users.

With your graphics and logo, you create a visual identity that will conquer the heart of your Users: your tuning is recognizable worldwide.

Creating your Powergate Manager identity allows you to stand out from the competition by building User loyalty so they can use your services again.

Versatile
Powergate Cloud.

Efficiency, speed, and storage.

The Powergate Cloud is an essential component that simplifies your work. It allows you to create and manage an online database that is always accessible, containing all the details of the files you have modified and associated with the original files read by the user's Powergate.

One of the great advantages of the Cloud is its storage capacity and the ability to minimize your effort. How does it work? The Cloud provides an online storage space where all the details of the modified files and associations with the original files are stored, allowing multiple users to share the same file, provided that the original file is already in the database. This means that different users can benefit from a single modification, allowing you to multiply your profits.

Eventually, if automatic file associations are active, the Cloud matches the modified files with the original files read or downloaded from the Alientech Database. This ensures that your User can receive the modified files on their Powergate without any intervention from you: a technological revolution that reduces time and facilitates your work.

What you need to beat the competition

Alientech Academy

Professional training for chiptuning.

Alientech Academy is the official training platform of Alientech that provides comprehensive and professional training in vehicle electronic control unit tuning.

With a training offer divided into two levels (BASIC and ADVANCED), Alientech Academy offers you a tailored solution based on your starting point and your goals! But that's not all. Alientech Academy is both online and in-person, with scheduled classes worldwide, taught by our trainers.

Whether you are a motor enthusiast, a mechanic, or an automotive industry professional, Alientech Academy offers you the opportunity to learn how to optimize vehicle performance, analyze diagnostic data, and maximize the efficiency of engines and automatic transmissions, even those of the latest generation.

Why choose Alientech Academy.

TRAINING AT ANY LEVEL	PROFESSIONAL PREPARATION	PROFESSIONAL TRAINERS
ONLINE OR IN-PERSON COURSES	MORE THAN 50 CLASSES IN A YEAR	ALIENTECH ACADEMY CERTIFICATE

Tailored

Are you an enthusiast?

Do you have a passion for engines? Are you a car fanatic?

Alientech has always been a part of this magnificent world. With Alientech Academy training, you can work in this industry, even if you start from scratch, through a specially designed program to quickly become a professional in electronic control unit and automatic transmission tuning.

You will follow a combination of in-class and online courses that fit your schedule. This is the time to get started!

1 Learn the technologies and structure of engines and automatic transmissions

2 Find out how to calibrate them

3 Deepen your knowledge of our tools

4 Safely modify management files with ECM Titanium

Tailored

Are you a professional?

Do you want to provide a better service for your customers?

Thanks to a program designed to enhance and deepen your recalibration techniques, Alientech Academy will train you on various types of vehicles.

Discover all the secrets of several control units and Alientech tools with highly specialized knowledge.

The program is structured with both in-person training sessions and online sessions, so you can take the lessons when you prefer. It's time to outperform the competition!

1 Enhance your skills in recalibrating various engine types

2 Perfect your remapping technique for individual ECUs/TCUs

3 Expand your knowledge of calibration, focusing on the world of two-wheelers

4 Work with us to develop specific knowledge based on your needs

Complete

In-person courses.

Our in-class courses are synchronous daily training sessions focused on an increase of your theoretical and practical knowledge in the chiptuning sector.

With the guide of our trainers, you will learn to work independently and with the confidence you need on all types of vehicles.

Our training offerings.

Basic courses

Chiptuning fundamentals and Alientech tools.

Become part of the world of electronic control unit reprogramming with basic-level training to be ready to work independently right away. Discover the hardware and how to modify the latest generation ECUs with our tools - try them live and get all your doubts clarified!

ECM Titanium and ECU tuning basics.

Learn to reliably and effectively modify the ECUS of diesel and gasoline propelled vehicles using ECM Titanium calibration software. Discover the potential of engines and how to intervene to achieve good results through remapping.

Advanced courses

Advanced gasoline engine remapping course.

Enhance your skills in tuning gasoline engines. Thanks to practical and theoretical insights into engine operation, you'll be able to extract the maximum potential from any gasoline-powered vehicle safely.

Advanced diesel engine remapping course.

Further improve your knowledge of diesel engines with practical and theoretical analysis of engine operation. This will allow you to maximize the performance of any diesel-powered vehicle safely and efficiently.

Motorcycle course - ECU theory.

Deepen your knowledge of modifying the latest motorcycle engine control units. Gather all the necessary information to understand ECU management logic and maximize performance in every intervention.

Motorcycle course - Technical analysis and recalibration examples.

Learn to independently read and analyze ECU calibration data and engine tables.
Interpret torque and power graphs with a focus on ECM Titanium, comparing original and modified files of Bosch, Denso, and Magneti Marelli ECUs, and many others, as needed.

Online courses.

Training programs: learn to recalibrate engines and automatic transmissions starting from technical analysis of component structure.

Remapping practices: specialize, with our comprehensive and professional online remapping practices, on each individual control unit.
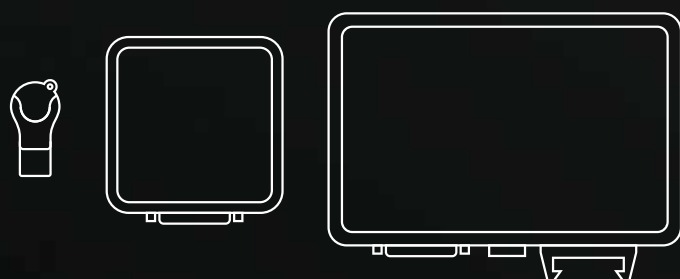
COLLABORATE WITH US

Become an Alientech Academy trainer.

"Are you already a customer of ours or do you have an interest in the world of reprogramming? This is the first step to join our Alientech Academy trainer community!

Thanks to the Alientech network worldwide, you can be selected by our commercial area managers as a trainer to promote the development of new markets with potential customers near you.

Are you ready to introduce new calibration professionals to the world of chiptuning? Take a look at our training offerings and discover the benefits of representing the Alientech brand worldwide.

ALIENTECH®