

## **License 1 - Dacia/Lada/Nissan/Renault ECU MCU C167 BENCH/OBDII**

Allows to read/write the FULL Flash 29F200/29F400. Allows reading/writing Flash emulated in EEPROM.

"Virginize" function - allows to make the ECU "New", suitable for installation on the car and its further adaptation for operation.

Read/Write works even when the immobiliser is locked, which allows you to repair the immobiliser without disassembling the ECU.

The firmware read in this way fully corresponds to the file read by the programmer in the "panel".

The work is done by direct connection to the ECU, without disassembling the ECU.

List of supported ECUs:

- Sirius 32 KLINE
- Sirius 32 CAN
- Sirius 34 KLINE
- Sirius 34 CAN
- Siemens EMS 3132 KLINE
- Siemens EMS 3132 CAN
- Siemens EMS 3134 KLINE
- Siemens EMS 3134 CAN
- Continental EMS 3132
- Continental EMS 3134
- Siemens SIM 32 CAN

Approximate list of vehicles:

- Renault Logan
- Renault Symbol
- Renault Scenic
- Renault Laguna
- Renault Megane
- Lada Largus
- Dacia Logan
- Nissan Almera

Not all software versions may be supported.

## **License 2 - Renault ECU KM BENCH/OBDII**

Mileage correction in the following ECUs:

- Continental SID 305 KM Read/Write
- Continental SID 306 KM Read/Write
- Continental SID 307 Read/Write CM
- Continental SID 309 Read/Write CM
- Delphi DCM3.4 Read/Write KM
- EDC16 Koleos Read/Write CM
- EDC16 Megane Read/Write CM
- EDC16 Scenic Read/Write CM
- EDC17 Master Read/Write KM
- EMS3120 Read/Write KM
- EMS3125 Read/Write KM
- EMS3130 Read/Write KM
- Valeo V4x Read/Write KM

Built-in calculators for working with ECU EEPROM files:

- EDC17
- EMS3120
- EMS3125
- Continental SID 305
- Continental SID 306
- Continental SID 307
- Continental SID 309

Not all software versions may be supported.

## **License 3 - GM Explorer BENCH/OBDII**

Chevrolet Cruze, Opel Actra J, Insignia and their platforms

BCM

- Identification
- Read CM
- Writing CM
- PIN reading
- Dismantling the ECU(Resetting PIN)
- ECU unit mounting(Binding of ECU unit to car(In case ECU and BCM calibrations are the same version)).
- BCM unit installation(Binding of BCM unit to car(In case ECU and BCM calibrations are the same version))
- EEPROM Editor(allows to transfer car data (VIN, PIN, Immo Data, keys, radio

channel) to another BCM or ECU.

- VIN recording

ABS

- Identification

- PIN reading

- Dismantle unit(Reset PIN)

- Record VIN

- Write PIN

Instrument panel

- Identification

- Read PIN/RAM

- Dismantling unit(Reset PIN)

- Writing PIN

- Write VIN

- Read/Write DID(No decoding)

AIRBAG

- Identification

- Read RAM

- Dismantling unit(Reset PIN)

- Write PIN

- Write VIN

Climate control unit

- Identification

- Dismantling the unit(Reset PIN)

- VIN record

- Recording PIN

Radio

- Identification

- Reset VIN

- VIN Recording (Allows you to link a used unit)

- 5 Byte Seed Key Calculation Calculator

Delphi MT80 ECU

- Identification

- Read PIN

- Dismantling the unit(Reset PIN)

- Write VIN

- EEPROM editor (allows to transfer car data (VIN, PIN, Immo Data, keys, radio channel) to another BCM or ECU.

ECU Delphi ACDelco E83

- Identification

- PIN reading

- Dismantling unit(Reset PIN)

- Write VIN

- EEPROM Editor(allows to transfer car data(VIN, PIN, Immo Data, keys, radio channel) To another BCM or ECU

ECU Delphi ACDelcoE78

- Identification

- PIN reading

- Dismantle unit(Reset PIN)

- Write VIN

- EEPROM editor (allows to transfer car data (VIN, PIN, Immo Data, keys, radio channel) to another BCM or ECU.

#### Denso 1.7

- Identification
- Read/Write EEPROM (4 EEPROMs)
- Read PIN
- Reset PIN
- Write VIN
- Read/Write CM

#### Chevrolet CAPTIVA

##### Instrument panel

- Read/Write CM

#### Opel Astra H/Vectra C/Zafira B

##### Info Display

- PIN reading

#### Delphi Delco MT35

- Identification
- Reading EEPROM
- Read PIN
- Reset PIN
- Write VIN
- Read /Write CM

#### Simtec71.5/Simtec71.6

- Identification
- Read/Write EEPROM
- Read PIN
- PIN reset
- Forced reset of the block when the timer does not allow the block to be reset any more
- Read/Write CM
- Write VIN

#### Simtec75.5

- Identification
- Read/Write EEPROM
- Read PIN
- PIN reset
- Forced reset of the block when the timer no longer allows the block to be reset
- Read/Write CM
- Write VIN

#### Simtec80.x

- Identification
- Read/Write EEPROM
- Read PIN
- PIN reset
- Forced reset of the block when the timer no longer allows the block to be reset
- Read/Write CM
- Write VIN

#### Bosch 762

- Identification
- Read PIN/RAM

- Reset PIN
- Read/Write CM
- Write VIN

#### Bosch EDC16C9

- Identification
- Read PIN/RAM
- Reset PIN
- Write VIN
- Read/Write CM

#### Bosch EDC16C39

- Identification
- Reset PIN
- Write VIN
- Read and Write CM

#### Magnetti Marelli MJD602/MJD603

- Identification
- EEPROM Read/Write
- PIN reading
- PIN Reset
- Write VIN

#### Denso 1.7

- Identification
- Read/Write EEPROM (2 EEPROMs)
- Read PIN
- Reset PIN
- Write VIN

#### CORSA D

##### Info Display

- Read PIN

##### BCM

- Identification
- Write PIN
- Block Reset
- Write VIN
- Immobiliser Options
- ECU replacement
- BCM replacement
- BCM + ECU replacement

#### Instrument panel

- Identification
- PIN reading
- Reset PIN
- Write PIN
- Write VIN

#### Bosch 761

- Identification
- Read PIN/RAM
- Reset PIN

- Read/Write CM
- Write VIN

Bosch 762

- Identification
- Read PIN/RAM
- Reset PIN
- Read/Write CM
- Write VIN

Magnetti Marelli MJD602/MJD603

- Identification
- EEPROM Read/Write
- Read PIN
- PIN Reset
- Write VIN

Not all software versions may be supported.

#### **License 4 - Suzuki NEC34+24C16 DASH BENCH/OBDII**

Suzuki Swift Continental VDO Mileage reading/writing, EEPROM reading/writing;  
Suzuki Kizashi Continental VDO Mileage reading/writing, EEPROM reading/writing;  
Suzuki Grand Continental VDO Mileage reading/writing, EEPROM reading/writing.  
Not all software versions are supported.

#### **License 5 - Infiniti/Nissan SRS BENCH/OBDII**

Autoliv ECUs;

INFINEON XC2361 EEPROM reading/writing, flash reading, crash data erasing;  
INFINEON XC2336B EEPROM reading/writing, flash reading, crash data erasing;  
Murano, Altima, Rogue 2017.

Not all software versions are supported.

Attention! It is highly recommended to connect ECUs (from 2015 and later) on the bench in their 'normal' (not upside down) position!

#### **License 6 - VAG Continental VDO NEC + 24C32 DASH BENCH/OBDII**

Supported dashboards:

- Skoda Fabia 2011 (P/N 5J0920810E) Mileage reading/writing, EEPROM reading/writing, Pin Reading
- Skoda Octavia A5 2009 (P/N 1Z0920803B) Mileage reading/writing, EEPROM reading/writing, Pin Reading
- VW Amarok 2011 (P/N 2H0920863) Mileage reading/writing, EEPROM reading/writing, Pin Reading
- VW Polo 2009 (P/N 6RF920860) Mileage reading/writing, EEPROM reading/writing, Pin Reading

- VW Polo 2011 (P/N 6RU920860A/B) Mileage reading/writing, EEPROM reading/writing, Pin Reading
- Vw Polo 2013 (P/N 6RU920860C/D) Mileage reading/writing, EEPROM reading/writing, Pin Reading
- Format converter Tango-MDFLASHER
- Dump editor MM7GV EEPROM 95320
- Dump editor IMMO CS/MAC/Pin

Not all software versions are supported.

## **License 7 - Honda/Lexus/Subaru/Toyota MCU H8Sx SRS UART/BENCH/OBDII**

CRASH DATA deleting via CAN bus on the bench:

Lexus DENSO SRS MCU RENESAS H8SX 1725/1797 (256/512KB) CAN/UART  
 Lexus FUJITSU SRS MCU RENESAS H8SX 1725/1797 (256/512KB) CAN/UART  
 Toyota DENSO SRS MCU RENESAS H8SX 1725/1797 (256/512KB) CAN/UART  
 Toyota FUJITSU SRS MCU RENESAS H8SX 1725/1797 (256/512KB) CAN/UART  
 Subaru DENSO SRS MCU RENESAS H8SX 1725/1797 (256/512KB) CAN/UART  
 Subaru DENSO SRS MCU RENESAS H8SX 1721 KLINE/UART  
 HONDA DENSO SRS MCU RENESAS H8SX KLINE/UART

HONDA KLINE RENESAS H8sx ECUs:

77960-SZN-A011-M1  
 77960-SZT-A011-M2  
 77960-SZT-G811-M2  
 77960-SZT-J411-M2  
 77960-SZT-L010-M2  
 77960-STX-A211-M1  
 77960-STX-A311-M1  
 77960-TK8-A011-M1  
 77960-TM8-A020-M2  
 77960-TM8-A031-M2  
 77960-TM8-G820-M2  
 77960-TP6-A111-M2  
 77960-TR0-L012-M2

Possible ECU writing (recovery): Toyota/Lexus/Subaru/Honda with UART of the ECUs with DENSO and FREESCALE via UART Adapter (based on FTDI 2232 microcontroller).

Built-in stock file base for Toyota, Subaru, Lexus, Honda with more than 312 files.

## **License 8 - Toyota ECU NEC76F00xx DTC**

Disabling the control of the following systems: the catalytic converter, EVAP, EGR , the secondary air injection system (error mask, emulation required!).

Supported ECUs: DENSO with NEC 76F00xx CPUs with the following dump sizes: 256, 320, 368, 384, 496, 736, 992.

It also provides correction of the dump read without the checksum recalculation.

The module DOES NOT support ALL the software. You can use it at your own risk.

### **License 9 - Toyota NEC34 + 24C16/NEC 70F3535/NEC R7F7014 DASH BENCH/OBDII**

Toyota NEC VDO+24C16 Corolla/Avensis/Auris 2013+ Milage reading/writing;  
EEPROM 24C16 reading/writing  
Toyota NEC VDO+24C16 2014+ AVENSIS / AURIS COROLLA Milage reading/writing;  
EEPROM 24C16 reading/writing  
Toyota NEC 70F3535 without extrenal EEPROM VDO AURIS / COROLLA 2014+ Milage  
reading/writing  
Toyota NEC 70F3535 without extrenal EEPROM VDO AURIS / COROLLA 2014+ Milage  
reading/writing; EEPROM 70F3535 reading/writing  
Toyota NEC 70F3535 without extrenal EEPROM VDO C-HR 2017 Milage  
reading/writing; EEPROM 70F3535 reading/writing  
Toyota NEC R7F7014 without extrenal EEPROM VDO CAMRY 2018 Milage  
reading/writing; EEPROM R7F7014 reading/writing  
Toyota Tacoma 2017+ year, USA Milage reading/writing

### **License 10 - Ssang Yong DIESEL IMMO OFF**

Disabling the immobilizer function for troubleshooting and checking the ECM during repairs.

The work is done by upgrading the EEPROM file.

Works as an editor.

List of supported ECUs:

- Delphi DCM3.2
- Delphi DCM3.7
- Delphi HCF32

Not all software versions may be supported.

### **License 11 - Dacia/Renault EPS/BCM IMMO BENCH/OBDII**

Renault MeganIII/Scenic III/Fluence/ClioIII/Modus/  
Restores EPS dump, makes it «new» — ready for installation on a vehicle,  
Virginizing.

- ECU identification
- VIN number Reading/Writing
- Error resetting

Renault

MEGANIII/SCENICIII/LAGUNAIIII/LATITUDE/CLIOII/KANGOO/TRAFIC/MASTER/MASTERII /  
LOGAN2

Restores the dump to its industrial state (BCM), makes it «new» — ready for  
installation on a car. Virginizing

- ECU identification.
- VIN number Reading/Writing
- Error resetting

Not all software versions may be supported.

### **License 12 - Renault EMS3132/3134/Sirius32 IMMO**

Disabling the immobilizer function for troubleshooting and checking the ECM during repairs.

The work is done by upgrading the Flash file.

Works as an editor.

List of supported ECUs:

- EMS3132
- EMS3134
- Sirius32
- Sirius34

The module performs checksum correction.

Not all software versions may be supported.

For Read/Write Flash it is recommended to use License 01 Renault ECU C167.

### **License 13 - Renault SPC Temic CAN/ KLINE SRS BENCH/OBDII**

- Reading/Clearing DTCs
- Clearing collision information.
- ECU unlocking
- Changing the ECU configuration.
- VIN reading/writing

List of supported ECUs:

Renault SANDEROII/DUSTERII/LOGANII/STEPWAY/KAPTUR/LADA X-RAY

SRS Renault Temik KLINE LOGAN I /DUSTER I /STEPWAY /SANDERO I

SRS Renault Temik\_KLINE\_LOGAN\_X90

SRS Renault Temik\_KLINE\_DUSTER\_H79

SRS Nissan Almera KLINE

SRS Nissan Terrano KLINE

Renault CLIOIII/MODUS

Renault CLIOII PHASEII

Not all software versions may be supported.

### **License 14 - Renault Autoliv Motorola+95640/95160 SRS BENCH/OBDII**

- Reading/Clearing DTCs

- Clearing collision information in ECUs with 9s12XDT384+95640.
- ECU unlocking
- Changing the ECU configuration
- VIN reading/Writing

Approximate list of supported vehicles:

Renault Fluence

Renault Megane III

Renault Latitude

Renault ScenicIII

Renault Kangoo II

Renault Twingo II

Renault MEGANE II / SCENIC II (Autoliv ACU4)

Renault MASTER III / CLIO III Ph2 (2008+) / MODUS Ph2 (Autoliv RC5 P1P2)

Renault LAGUNA III (Autoliv RC5)

OPEL MOVANO-B (2010+) (Autoliv RC5 P1P2)

Not all software versions may be supported.

## **License 15 - Lada/Nissan/Renault/NEC+24C16/Motorola XHY256 DASH BENCH/OBDII**

ECUs with NEC34+24C16 microcontroller

- Working with ECUs on the bench is required
- Milage reading/writing
- EEPROM reading/writing
- Flash reading/writing (program area + calibration)

ECU with Motorola 9S12XHY256 microcontroller

Working with ECUs on the bench is required

Milage reading/writing

Flash reading/writing (program area + calibration)

Configuration reading/writing

Approximate list of vehicles:

Lada X Ray

Nissan Terrano

Renault Clio IV

Renault Duster2

Renault Fluence

Renault Captur

Renault Laguna

Renault Latitude

Renault Logan2

Renault Meganelll

Renault Sandero2

Not all software versions may be supported.

## **License 16 - Renault/Dacia Fujitsu 96F385/386/387/6A6 DASH BENCH/OBDII**

ECU on the microcontroller MB96F386 + 95160

- Working with ECUs on the bench is required
- Mileage Reading/Writing
- EEPROM Reading/Writing
- Flash Reading/Writing (program area + calibration)

ECU on the microcontroller MB96F387 + 95160

- Working with ECUs on the bench is required
- Mileage Reading/Writing
- EEPROM Reading/Writing
- Flash Reading/Writing (program area + calibration)

ECU on the microcontroller MB96F385+95160

- Working with ECUs on the bench is required
- EEPROM Reading/Writing
- Flash Reading/Writing (program area + calibration)

ECU on the microcontroller MB96F6A6

- Working with ECUs on the bench is required
- EEPROM Reading/Writing
- Flash Reading/Writing (program area + calibration)

Not all software versions may be supported.

## **License 17 - Renault MeganII/Clio III/Scenic II DASH BENCH/OBDII**

Mileage reading, writing with 24c04 and 93c56 EEPROM;

Motorola HC08 dashboards;

Direct connection on the bench;

- Renault Clio
- Renault Kangoo
- Renault Lagunall
- Renault Megane
- Renault Scenic 2002 - 2005.

## **License 18 - Nissan Qashqai 2010+ Rogue 2010+ X-Trail 2010 DASH BENCH/OBDII**

The module works via OBD;  
Only the panels with 9S12XHZ256 microcontrollers are supported!  
Nissan Qashqai 2010+ Mileage reading/writing; FLASH reading/writing;  
Rogue 2010+ Mileage reading/writing; FLASH reading/writing;  
X-TRAIL 2010+ ODO Mileage reading/writing; FLASH reading/writing.

## **License 19 - Infiniti/Nissan NEC34 + 24C16 DASH BENCH/OBDII**

Mileage reading/writing, EEPROM reading/writing, FLASH reading on Nissan/Infiniti vehicles of 2013 and later VDO NEC+24C16 via OBD2

NISSAN

- ALTIMA from 2013
- LEAF from 2011
- PATHFINDER from 2011
- TEANA from 2014
- SERENA from 2011

## **License 20 - Mitsubishi NEC+93C76(86)/NEC35xx DASH BENCH/OBDII**

Mitsubishi ASX 2014+ 8100B951 (NEC 70F3529 without external EEPROM) Mileage reading/writing, EEPROM reading/writing;

Mitsubishi ASX 2014+ 8100B951 (NEC 70F3529 without external EEPROM) Mileage reading/writing, EEPROM reading/writing;

Mitsubishi ASX 2014+ 8100B961 (NEC 70F3523 without external EEPROM) Mileage reading/writing, EEPROM reading/writing;

Mitsubishi ASX 8100C051 (Fujitsu 91F223 + 93C76) Mileage reading/writing

Mitsubishi ASX 8100B451 (Fujitsu 91F223 + 93c86) Mileage reading/writing

Mitsubishi ASX 8100B361 (Fujitsu 91F223 + 93c86) Mileage reading/writing

Mitsubishi ASX 8100B801 (Fujitsu 91F223 + 93c76) Mileage reading/writing

Mitsubishi ASX 8100B821 (Fujitsu 91F223 + 93c76) Mileage reading/writing

Mitsubishi ECLIPSE 2018+ 8100C412 (NEC 70F3529 without external EEPROM)

Mileage reading/writing, EEPROM reading/writing;

Mitsubishi L200 2015+ 8100B975 (NEC+93c76) Mileage reading/writing, EEPROM reading/writing;

Mitsubishi L200 2016+ 8100C564 (NEC+93c76) Mileage reading/writing

Mitsubishi Lancer 8100C051 (Fujitsu 91F223 + 93C76) Mileage reading/writing

Mitsubishi Lancer 8100B451 (Fujitsu 91F223+93c86) Mileage reading/writing

Mitsubishi Lancer 8100B361 (Fujitsu 91F223+93c86) Mileage reading/writing

Mitsubishi Lancer 8100B801 (Fujitsu 91F223+93c76) Mileage reading/writing

Mitsubishi Lancer 8100B821 (Fujitsu 91F223+93c76) Mileage reading/writing

Mitsubishi Outlander 8100B197 (Fujitsu 91F223 + 93C86) Mileage reading/writing

Mitsubishi Outlander 8100B451 (Fujitsu 91F223 + 93c86) Mileage reading/writing

Mitsubishi Outlander 8100B202 (Fujitsu 91F223 + 93c86) Mileage reading/writing

Mitsubishi Outlander 8100B801 (Fujitsu 91F223 + 93c76) Mileage reading/writing

Mitsubishi Outlander 2014+ 8100B889 (NEC+93c76) Mileage reading/writing

Mitsubishi Outlander 2014+ 8100C292 (NEC+93c76) Mileage reading/writing

Mitsubishi Outlander 2014+ 8100B895 (NEC+93c76) Mileage reading/writing

Mitsubishi Outlander 2014+ 8100C294 (NEC+93c76) Mileage reading/writing

Mitsubishi Outlander 2014+ 8100C506 (NEC+93c76) Mileage reading/writing  
Mitsubishi Outlander 2014+ 8100C533 (NEC+93c76) Mileage reading/writing  
Mitsubishi Outlander 2014+ 8100C543 (NEC+93c76) Mileage reading/writing  
Mitsubishi Pajero Sport 2017+ (NEC+93c76) Mileage reading/writing

Peugeot 4007 8100B451 (mb91F223+93c86) Mileage reading/writing  
Peugeot 4007 8100B197 (mb91F223+93c86) Mileage reading/writing  
Peugeot 4007 8100B202 (mb91F223+93c86) Mileage reading/writing

Citroën C-Crosser 8100B451 (mb91F223+93c86) Mileage reading/writing  
Citroën C-Crosser 8100B197 (mb91F223+93c86) Mileage reading/writing  
Citroën C-Crosser 8100B202 (mb91F223+93c86) Mileage reading/writing  
Citroën C-Crosser 8100B801 (mb91F223+93c76) Mileage reading/writing

Not all software versions may be supported.

## **License 21 - Chevrolet Siemens Sirius D3x/D4x/D5x IMMO**

repair. Operation is done by upgrading the Flash file.

Works as an editor.

Disabling the immobiliser function for troubleshooting and checking the ECU during

List of supported ECUs:

- Sirius D32 (with checksum recalculation)
- Sirius D42 (with checksum recalculation)
- Sirius D51 (with checksum recalculation)
- Sirius D52 (with checksum recalculation)
- Delphi ECU MR-140/HV-240 (without checksum conversion)

Not all the software versions can be supported. To add a new software version, please contact the [support portal](#) and attach a file.

## **License 22 - Cypress/Fujitsu/Spansion MB91F0xx/S6J3xx MCU UART**

Adapter FTDI2232 UART ver.3.0 is required.

MB91F016A R/W WORK FLASH, R/W MAIN FLASH

MB91F060BS R/W WORK FLASH, R/W MAIN FLASH

MB91F061BS R/W WORK FLASH, R/W MAIN FLASH

MB91F062BS R/W WORK FLASH, R/W MAIN FLASH

MB91F067BS R/W WORK FLASH, R/W MAIN FLASH

MB91F523B/D/J/K/L R/W WORK FLASH, R/W MAIN FLASH

S6J3001LSJ R/W WORK FLASH, R/W TC FLASH

S6J300BKSE R/W WORK FLASH, R/W TC FLASH

S6J311AHAA R/W WORK FLASH, R/W TC FLASH

S6J311EJAA/EHAA R/W WORK FLASH, R/W TC FLASH

S6J311BJAB/BHAB/BJBB/BHBB R/W WORK FLASH, R/W TC FLASH

S6J311CJAB/CHAB/CJBB/CHBB R/W WORK FLASH, R/W TC FLASH

S6J311DJAB/DHAB/DJBB/DHBB R/W WORK FLASH, R/W TC FLASH

S6J311EJAB/EHAB/EJBB/EHBB R/W WORK FLASH, R/W TC FLASH

S6J312AHAA R/W WORK FLASH, R/W TC FLASH

S6J320CQXA R/W WORK FLASH, R/W TC FLASH  
S6J323C/4C/5C/6C/7C/8C R/W WORK FLASH, R/W TC FLASH  
S6J324CLS/CKS R/W WORK FLASH, R/W TC FLASH  
S6J326CLS/CKS R/W WORK FLASH, R/W TC FLASH  
S6J32A9/B9/C9/D9 R/W WORK FLASH, R/W TC FLASH  
S6J32AA/BA/CA/DA R/W WORK FLASH, R/W TC FLASH  
S6J331E R/W WORK FLASH, R/W TC FLASH

These MCs were installed in various ECUs, on cars:

Daihatsu

- Move 2015+

Honda

- Accord 2018+
- Fit 2015+
- Fit Hybrid 2014+
- Jade 2015+
- Vezel Hybrid 2014+

Hyundai

- Avante 2015+
- Elantra 2015+
- i30 2015+
- i40 2015+
- Kona 2017+
- Palisade 2019+
- Palisade Big Display 2019+
- Santa Fe 2018+
- Sonata 2015+
- Tucson 2015+

Kia

- Carnival 2015+
- Ceed 2018+ (mb91F061)
- Cerato 2018+ (mb91F061)
- Forte 2015+
- Picanto 2015+ (mb91F061)
- Sedona 2015+
- Sorento 2015+ (mb91F067)
- Telluride (s6j332E)
- Telluride Big Display (s6j332E)

## Lexus

- ES350 2018+ (s6j3001)
- UX200 2018+ (s6j3001)

## Suzuki

- Hustler 2015+

## Toyota

- Camry v70 2015+
- Corolla 2018+ (s6j3001)
- Corolla 2018+ v2 (s6j3001)
- Fortuner 2015+ (mb91F061)
- RAV4 2015+ (mb91F060)
- RAV4 2018+ (s6j3001)
- RAV4 2019+ (s6j3001)
- RAV4 2020+ (s6j3001)
- Sienta 2018 (mb91F060)

The \*years are approximate, ECU disassembly is required to accurately identify the installed microcontroller.

## **License 23 - Mazda ALL Fujitsu 93cXX MCU MB90Fxxx, MB91Fxxx, Hitachi DASH BENCH/OBDII**

Mazda 6, CX5 2013+ Mileage reading, writing / EEPROM reading, writing;  
Mazda 2,3 2014+ Mileage reading, writing / EEPROM reading, writing;  
Mazda MX5 2015+ Mileage reading, writing / EEPROM reading, writing;  
Mazda 3 2010-2013 Mileage reading, writing / EEPROM reading, writing;  
Mazda 5 2010-2013 Mileage reading, writing / EEPROM reading, writing;  
Mazda 6 2010-2013 Mileage reading, writing / EEPROM reading, writing;  
Mazda CX9 2010-2013 Mileage reading, writing / EEPROM reading, writing.  
Mazda CX5(TFT BIG) 2020+ Mileage reading, writing / EEPROM reading, writing.

## **License 24 - Hyundai/Kia/Mitsubishi Melco IMMO**

Disabling the immobiliser function for troubleshooting and checking the ECU during repair.

Operation is done by upgrading the Flash file.

Works as an editor.

List of supported ECUs:

- MELCO 2/3 gen.
- MELCO Galant
- MELCO Colt

- Pajero IV GEN 4

Not all the software versions can be supported. To add a new software version, please contact the [support portal](#) and attach a file.

### **License 25 - Hyundai/Kia SRS BENCH/OBDII**

Attention! It is highly recommended to connect ECUs (from 2015 and later) on the bench in their 'normal' (not upside down) position!

INFINEON XC2361 EEPROM reading/writing, FLASH reading;  
MAC7242 EEPROM reading/writing, FLASH reading;  
MOBIS EEPROM reading/writing (95128/95256/95320/95640);  
Kia RIO 3, KIA CERATO NEW, KIA CEED, HYUNDAI I30, etc.  
MOBIS SRS.  
NEC 70F3628 - an UART adapter for FTDI required.

### **License 26 - Hyundai/Kia DELPHI MT38 / M(G)7.9.8/ME17.9.11(12) /EDC16 IMMO**

IMMO OFF; it works as an editor with the dump.

Not all the software versions can be supported. To add a new software version, please contact the [support portal](#) and attach a file.

### **License 27 - Hyundai/KIA Fujitsu MB91F061/062/067 DASH BENCH/OBDII**

Connection via OBD, operation period 4-10 minutes.

Suggested car list:

Hyundai Avante MB91F061 Mileage writing, Flash memory reading/writing;  
Hyundai Elantra MB91F061 Mileage writing, Flash memory reading/writing;  
Hyundai Santafe MB91F061 Mileage writing, Flash memory reading/writing;  
Hyundai I30 MB91F062 Mileage writing, Flash memory reading/writing;  
Hyundai I40 MB91F062 Mileage writing, Flash memory reading/writing;  
Hyundai Sonata MB91F062 Mileage writing, Flash memory reading/writing;  
Hyundai Tucson MB91F062 Mileage writing, Flash memory reading/writing;  
Hyundai Avante MB91F067 Mileage writing, Flash memory reading/writing;  
Hyundai Elantra MB91F067 Mileage writing, Flash memory reading/writing;  
Hyundai Santafe MB91F067 Mileage writing, Flash memory reading/writing;

Kia Carnival MB91F061 Mileage writing, Flash memory reading/writing;  
Kia Picanto MB91F061 Mileage writing, Flash memory reading/writing;  
Kia Sedona MB91F061 Mileage writing, Flash memory reading/writing;  
Kia Sorento MB91F061 Mileage writing, Flash memory reading/writing;  
Kia Sorento MB91F067 Mileage writing, Flash memory reading/writing.  
Possible panel coding (from 2013)

## **License 28 - Hyundai/Kia NEC34/NEC35/S6J3xx/R7F7xx DASH BENCH/OBDII**

Kia Sportage 2017 Yazaki, reading/writing of mileage calculator 25160;  
Kia NEC+24c16 2015-...  
Kia Optima mileage calculator reading/writing, EEPROM reading/writing;  
Kia Ceed mileage calculator reading/writing, EEPROM reading/writing;  
Kia Sportage mileage calculator reading/writing, EEPROM reading/writing;  
Kia Magnetis mileage calculator reading/writing, EEPROM reading/writing;  
Kia Sorento mileage calculator reading/writing, EEPROM reading/writing;  
Kia Sportage NEC 2014-... NEC 70F35xx mileage calculator reading/writing, EEPROM reading/writing;  
Kia Optima 2014-... NEC 70F35xx mileage calculator reading/writing, EEPROM reading;  
Kia Magnetis NEC mileage calculator reading/writing, EEPROM reading/writing;  
Kia Sorento NEC mileage calculator reading/writing, EEPROM reading/writing;  
Kia Optima NEC mileage calculator reading/writing, EEPROM reading/writing;  
Kia Ceed NEC mileage calculator reading/writing, EEPROM reading/writing;  
Kia Sportage NEC mileage calculator reading/writing, EEPROM reading/writing;  
Kia Soul NEC mileage calculator reading/writing, EEPROM reading/writing;  
Kia Rio NEC mileage calculator reading/writing, EEPROM reading/writing;

Hyundai Solaris 2017- mileage calculator reading/writing, EEPROM reading/writing;  
Hyundai I20 NEC 70F35xx mileage calculator reading/writing, EEPROM reading/writing;  
Hyundai Tucson NEC 70F35xx mileage calculator reading/writing, EEPROM reading/writing;  
Hyundai Veloster NEC mileage calculator reading/writing, EEPROM reading/writing;  
Hyundai Genesis NEC mileage calculator reading/writing, EEPROM reading/writing;  
Hyundai Elantra NEC mileage calculator reading/writing, EEPROM reading/writing;  
Hyundai VeraCruz NEC mileage calculator reading/writing, EEPROM reading/writing;  
Hyundai I20 NEC mileage calculator reading/writing, EEPROM reading/writing;  
Hyundai Azera NEC mileage calculator reading/writing, EEPROM reading/writing;  
Hyundai HB20 NEC mileage calculator reading/writing, EEPROM reading/writing.

## **License 29 - Fiat/Iveco/Peugeot DASH BENCH/OBDII**

Mileage writing, EEPROM 95040, vehicles till 2011;  
Mileage writing, EEPROM 95160, vehicles after 2011;  
Fiat Albea, Ducato, etc. Peugeot Partner.

## **License 30 - Ford/Mazda SRS BENCH/OBDII**

Attention! It is highly recommended to connect ECUs (from 2015 and later) on the bench in their 'normal' (not upside down) position!

INFINEON XC2361 READING/WRITING of EEPROM/READING of FLASH;  
INFINEON XC2336 READING/WRITING of EEPROM/READING of FLASH;  
MAC7242 RADING/WRITING of EEPROM/READING of FLASH.  
ECUs from 2013+ in CX-5, MAZDA 3 NEW, MAZDA 6 NEW, etc.

FORD SRS RESETTER CAN 2005-2010;  
removing crash data on Ford vehicles 2005-2011.

MAZDA SRS RESETTER CAN 2005-2011;  
removing crash data on MAZDA 2005-2011.

### **License 31 - EDC17/MED17 IMMO**

This module provides data removal from the immobilizer of MED17 and EDC17 ECUs, correction of the TRICORE dump read in the BOOT mode (FULL FLASH) without the checksum recalculation.

Audi/Seat/Skoda/VW - Bosch MED17.5  
Audi/Seat/Skoda/VW - Bosch EDC17C46  
Audi/Seat/Skoda/VW - Bosch EDC17CP04  
Audi/Seat/Skoda/VW - Bosch EDC17CP14  
Audi/Seat/Skoda/VW - Bosch EDC17CP20  
Audi/Seat/Skoda/VW - Bosch EDC17CP22  
Audi/Seat/Skoda/VW - Bosch EDC17CP44  
Audi/Seat/Skoda/VW - Bosch EDC17U01  
Audi/Seat/Skoda/VW - Bosch EDC17U05  
Land Rover - Bosch EDC17CP11  
Fiat - Bosch EDC17CP49  
Fiat - Bosch EDC17CP52  
Ford - Bosch EDC17CP20  
Hyundai - Bosch EDC17C08  
KIA - Bosch EDC17C08  
KIA - Bosch EDC17C14  
KIA - MED17.9.8 TC1767  
Porsche - Bosch EDC17CP44  
Porsche - Bosch EDC17CP14  
Citroen - Bosch EDC17C10  
Citroen - Bosch MEV17.4  
Peugeot - Bosch EDC17C10  
Peugeot - Bosch MEV17.4  
Volvo - Bosch EDC17CP22  
BMW - Bosch EDC17C06  
UAZ 17.9.7 and 17.9.71

Not all the software versions can be supported. To add a new software version, please contact the [support portal](#) and attach a file.

### **License 32 - Chery/GW/Geely DASH BENCH/OBDII**

Chery Kimo via J2534 - Read/Write EEPROM; Read/Write ODO;  
Chery Amulet ver1 via KLINE - Read/Write EEPROM; Read/Write ODO;  
Chery Tiggo ver1 via KLINE - Read/Write EEPROM; Read/Write ODO;  
Chery Fora via J2534 - Read/Write EEPROM; Read/Write ODO;  
Chery Indis via J2534 - Read/Write EEPROM; Read/Write ODO;  
Geely Emgrand EC7 CAN via J2534 - Read/Write EEPROM; Read/Write ODO;  
GREAT WALL (HOVER,HAVAL) H3,H5 EEPROM 24C32 restyling (~2010-2017) via J2534 - Read/Write EEPROM; Read/Write ODO;  
GREAT WALL (HOVER,HAVAL) H3,H5 EEPROM 93c66 before restyling, via K-Line -

Read/Write EEPROM; Read/Write ODO;  
Chery Tiggo 5 via J2534 - Read/Write ODO;  
Chery Arrizo 7 via J2534 - Read/Write ODO.

### **License 33 - VW Polo 6RF920860Q DASH BENCH/OBDII**

Mileage reading/writing;  
Backup saving;  
6RF920860Q panel supported.

### **License 34 - Dacia/Renault/Samsung ATE ABS/CDC/ESP BENCH/OBDII**

Renault Megane III Mileage reading/writing, EEPROM reading/writing in ABS/CDC/ESP units by ATE;  
Renault Laguna III Mileage reading/writing, EEPROM reading/writing in ABS/CDC/ESP units by ATE;  
Renault Fluence Mileage reading/writing, EEPROM reading/writing in ABS/CDC/ESP units by ATE;  
Renault Latitude Mileage reading/writing, EEPROM reading/writing in ABS/CDC/ESP units by ATE;  
Renault Scenic III Mileage reading/writing, EEPROM reading/writing in ABS/CDC/ESP units by ATE;  
Renault Scala Mileage reading/writing, EEPROM reading/writing in ABS/CDC/ESP units by ATE;  
Samsung SM3 Mileage reading/writing, EEPROM reading/writing in ABS/CDC/ESP units by ATE;  
Samsung SM5 Mileage reading/writing, EEPROM reading/writing in ABS/CDC/ESP units by ATE; Renault TraficIV Mileage reading/writing, EEPROM reading/writing in ABS/CDC/ESP units by ATE;  
Renault MeganeIV Mileage reading/writing, EEPROM reading/writing in ABS/CDC/ESP units by ATE;  
Renault ScenicIV Mileage reading/writing, EEPROM reading/writing in ABS/CDC/ESP units by ATE;  
Renault EspaceV Mileage reading/writing, EEPROM reading/writing in ABS/CDC/ESP units by ATE;  
Renault Kadjar Mileage reading/writing, EEPROM reading/writing in ABS/CDC/ESP units by ATE;  
Renault Talisman Mileage reading/writing, EEPROM reading/writing in ABS/CDC/ESP units by ATE.

### **License 35 - Hyundai/Kia Fujitsu MB90F025(26)/MB91F037(047)+93C66 DASH BENCH/OBDII**

The module allows to work with dashboards via OBD or on the bench using a J2534 device.

Available functions:

- Mileage reading/writing;
- 93C66 EEPROM reading/writing.

Reading/writing take 1-2 minutes depending on the J2534 device.

Supported J2534 devices:

- DrewTech Mongoose
- DrewTech CarDAQ
- Scanmatik 2 PRO
- SMS — DiaLink
- Chipsoft J2534 Lite (with disabled OpenPort2 support)
- Chipsoft J2534 Mid (with disabled OpenPort2 support)
- Chipsoft J2534 Pro (with disabled OpenPort2 support)

Openport 2.0 is NOT supported!

Suggested car list:

- Hyundai Equus 2013-2015 Full TFT LCD(Fujitsu MB91F037+93C66)
- Hyundai Centennial 2013-2015 Full TFT LCD(Fujitsu MB91F037+93C66)
- Kia Cadenza 2013\_2016 7» TFT LCD(Fujitsu MB91F037+93C66)
- Kia Carens 2012-2016 Small LCD(Fujitsu MB90F026+93C66)
- Kia Carens 2012-2016 SuperVision TFT LCD(Fujitsu MB91F037+93C66)
- Kia Carnival 2014+ Small segment LCD(Fujitsu MB91F047+93C66)
- Kia Sedona 2014+ Small segment LCD(Fujitsu MB91F047+93C66)
- Kia Cerato 2012-2016 Segment LCD(Fujitsu MB90F025+93C66)
- Kia K3 2012-2016 Segment LCD(Fujitsu MB90F025+93C66)
- Kia Forte 2012-2016 Segment LCD(Fujitsu MB90F025+93C66)
- Kia Cerato 2012-2017 SuperVision Monochrome(Fujitsu MB91F037+93C66)
- Kia K3 2012-2017 SuperVision Monochrome(Fujitsu MB91F037+93C66)
- Kia Forte 2012-2017 SuperVision Monochrome(Fujitsu MB91F037+93C66)
- Kia Cerato 2012-2017 SuperVision TFT LCD(Fujitsu MB91F037+93C66)
- Kia K3 2012-2017 SuperVision TFT LCD(Fujitsu MB91F037+93C66)
- Kia Forte 2012-2017 SuperVision TFT LCD(Fujitsu MB91F037+93C66)
- Kia Quoris 2012-2014 SuperVision Full TFT LCD(Fujitsu MB91F037+93C66)
- Kia Quoris 2012-2014 SuperVision TFT LCD(Fujitsu MB91F037+93C66)
- Kia Quoris 2015-2017 SuperVision Full TFT LCD(Fujitsu MB91F037+93C66)

### **License 36 - VAG VDO Continental MQBAB 2014-... DASH BENCH/OBDII**

VAG VDO Continental MQBAB 2014-... NEC D70F35xx(RENESAS A2Cxxx) OBDII;  
Only VDO/ Continental 2014.07+ controls panels are supported;  
Control panels by Johnson Controls ARE NOT supported;

2017+ Full LCD control panels ARE NOT supported;  
Work is possible only when you have a functioning key in the ignition lock;  
Important: If you have KESSY (SMART key), you need to keep it near the coil during the operation process;

The module has been tested with the following control panels:

Skoda Octavia III 07.2014+

VW Golf 7 07.2014+

VW Passat B8 07.2014+

Scoda Rapid 09.2015+

It may be possible to work with:

Audi A3 Mk3 07.2014+

Audi Q2

Skoda Fabia III 07.2014+

Skoda Superb III (B8)

Seat Leon III 07.2014+

Seat Ateca

Seat Toledo IV 2015+

Seat Ibiza IV (6P) 2015+

VW Electric Golf 04.2014-...

VW Golf GTE 02.2014-...

VW Golf Sportsvan 06.2014-...

VW Tiguan II

VW Touran II

VW Crafter (7C) 2017+

VW Polo 5 2015+.

### **License 37 - Hyundai/Kia ECU PIN BENCH/OBDII**

PIN code reading in the following ECUs:

BOSCH 17.9.11

BOSCH 17.9.12

### **License 38 - Mazda 3/6/CX5/9 2016/2017/2018-... DASH BENCH/OBDII**

Control panels by Calsonic Kansei;

Mazda 3 Color Display (93c86) 2018-... Mileage reading/writing;

Mazda 6 Color Display (93c86) 2016-... Mileage reading/writing;

Mazda 6 Color Display (93c86) 2017-... Mileage reading/writing;

Mazda CX5 Color Display (93c86) 2016-... Mileage reading/writing;

Mazda CX5 Color Display (93c86) 2017-... Mileage reading/writing; Mazda CX9 Color Display (93c86) 2017-... Mileage reading/writing.

### **License 39 - Subaru Legacy/Outback 2015 NEC70F35xx DASH BENCH/OBDII**

Subaru Outback 2015+ MCU D70F35xx (without external EEPROM): internal NEC D70F35xx EEPROM reading/writing, mileage reading/writing;

Subaru Legacy 2015+ MCU D70F35xx (without external EEPROM): internal NEC D70F35xx EEPROM reading/writing, mileage reading/writing.

### **License 40 - GM Delphi MT60/80 ECU BENCH/OBDII**

GM ECU Delphi MT60 Reading/writing\_Tricore\_Full\_Flash\_OBDII;  
GM ECU Delphi MT80 Reading/writing\_Tricore\_Full\_Flash\_OBDII;  
EEPROM reading;  
Cloning.

### **License 41 - GM ACDelco E83 ECU BENCH/OBDII**

Cloning, EEPROM reading/writing;  
Suggested carlist:  
Opel Astra J  
Opel Corsa D  
Chevrolet Cruze  
Chevrolet Cobalt  
ECU virginizing: you need to flash a file from a new ECU and then link it to the vehicle via SPS service;  
Synchronization transfer (if the SW versions coincide or if you know that they are compatible);  
Second hand ECU preparation (VIN, PIN, etc transfer); Mileage change (with a third party calculator!).

### **License 42 - Renault SRS RH850\_R7F7010xx\_OBDII**

Crash data deleting;  
Error reading/deleting; ECU SRS unlock.

Suggested car list:

- Renault Clio RH850 Renesas R7F7010xx
- Renault Capture RH850 Renesas R7F7010xx
- Renault Logan New Ph2 RH850 Renesas R7F7010xx

### **License 43 - Renault Autoliv RC7 XC23xx/Veoneer Tricore TC2xx SRS BENCH/OBDII**

Autoliv RC7 ECUs based on XC23xx:

Renault Kadjar DTCs reading/clearing; ECU unlock; rash data erasing;  
Renault MeganeIV DTCs reading/clearing; ECU unlock; rash data erasing;  
Renault EspaceV DTCs reading/clearing; ECU unlock; rash data erasing;  
Renault ScenicIV DTCs reading/clearing; ECU unlock; rash data erasing;  
Renault Talisman DTCs reading/clearing; ECU unlock; rash data erasing;  
Renault Koleos II DTCs reading/clearing; ECU unlock; rash data erasing;

Veoneer based on Tricore TC2xx(2019+):

Dacia Sandero III DTCs reading/clearing; ECU unlock; rash data erasing;  
Renault MeganeIV DTCs reading/clearing; ECU unlock; rash data erasing;

Renault EspaceV DTCs reading/clearing; ECU unlock; rash data erasing;  
Renault Talisman DTCs reading/clearing; ECU unlock; rash data erasing;

### **License 44 - Denso Bootloader SH705x ECU BENCH/OBDII**

Cloning of the ECUs based on RENESAS SH705x without opening;  
SH7058 and SH7059 FULL FLASH reading/writing without checksum calculation;  
EEPROM reading/writing in Opel and Mitsubishi vehicles;  
Mileage calculator for Mitsubishi DENSO;

Suggested carlist:

Nissan Navara, Pathfinder SH7058, SH7059 FULL FLASH reading/writing;  
Opel VECTRA, C SIGNUM, MERIVA, CORSA C, ASTRA H, ASTRA J, ZAFIRA B, CORSA D,  
MERIVA B SH7058, SH7059 FULL FLASH reading/writing; EEPROM reading/writing;  
Mazda 2,3,5,6 SH7058, SH7059 FULL FLASH reading/writing;  
Suzuki Grand Vitara SH7058 FULL FLASH reading/writing;  
Mitsubishi L200, Pajero SH7058, SH7059 FULL FLASH reading/writing;  
Subaru Forester, Outback, Legacy SH7058, SH7059 FULL FLASH reading/writing.

### **License 46 - VAG VDO Continental MQBAB 2012-2014 DASH BENCH/OBDII**

VAG VDO Continental MQBAB 2012-2014 NEC D70F35xx (RENESAS A2Cxxx) OBDII  
Supports ONLY VDO/Continental control panels made in 2012 - 06.2014. Johnson  
Controls controls panels ARE NOT SUPPORTED. The module functions only when the  
key is in the ignition switch. Important: if you have a KESSY (SMART key), it should  
be inside the vehicle dureing the opration time.

The module has been tested with the following control panels:

- Skoda Octavia A7 03.2014

Possible support of:

- Audi A3 2012...06/2014
- Seat Leon 2012...06/2014
- VW Golf 7 2012...06/2014

### **License 47 - Dacia/Lada/Renault Continental BCM BENCH/OBDII**

The module allows to work with BCM Continental via OBD or on the bench.

Funtions:

- BCM identification; Error codes reading/erasing;
- Flash memory reading/writing (without the loading area);
- Vin change; BCM virginizing;
- PINCODE reading (necessary to write keys into BCM),
- ISK code reading, transponder password reading;
- BCM training (virgin unit pairing);

- ECM training (new engine ECU);
- Key programming, even if lost.

Pin code reading takes ~1 minute depending on the J2534 device.

Supported J2534 devices:

- **DrewTech Mongoose**
- **DrewTech CarDAQ**
- **Scanmatik 2 PRO**
- **SMS — DiaLink**
- **Chipsoft J2534 Lite** (with disabled OpenPort2 support)
- **Chipsoft J2534 Mid** (with disabled OpenPort2 support)
- **Chipsoft J2534 Pro** (with disabled OpenPort2 support)

**Openport 2.0 is NOT supported!**

Suggested carlist with Continental BCMs (steel cored keys):

- LADA VESTA 2015 +
- Renault Logan 2012 +
- Renault Duster 2012 +
- Renault Dokker 2012 +
- Renault Lodgy 2012 +
- Renault Symbol 2012 +
- Dacia Logan 2012 +
- Dacia Duster 2012 +
- Dacia Dokker 2012 +
- Dacia Lodgy 2012 +
- Dacia Symbol 2012 +

## **License 48 - Cypress/Fujitsu 96Fxx MCU UART**

FULL FLASH reading/writing of FUJITSU/SPANSION/CYPRESS microcontrollers via DENSO-UART adapters on FTDI.

The following processors are supported:

- MB96F673
- MB96F675
- MB96F693
- MB96F696
- CY96F673
- CY96F675

- CY96F693
- CY96F696

The module has built-in calculators for calculating and modifying mileage readings in the dashboards where the following microcontrollers are installed:

- GAZ NEXT 2013 MB96F696
- GAZ NEXT 2014 MB96F696
- GAZ NEXT 2015 V1 MB96F696
- GAZ NEXT 2015 V2 MB96F696
- GAZ NEXT 2016 2017 MB96F696
- GAZ NEXT 2016 A21R23 MB96F696
- GAZ NEXT 2016 A21R25 MB96F696
- GAZ NEXT 2017 MB96F696
- GAZ NEXT 2018 MB96F696
- GAZ PA8160 5 MB96F673
- GAZ SOBOL 385 3801010 MB96F696
- GAZON NEXT 2014 MB96F696
- GAZON NEXT 2015 MB96F696
- GAZON NEXT 2016 UP MB96F696
- KAMAZ PA8090 v1 MB96F673
- KAMAZ PA8090 v2 MB96F673
- KRAZ PA8090 4 MB96F673
- LIAZ PA8090 MB96F673
- MAZ PA8090 4 MB96F673
- MAZ PA8090 5 MB96F673
- MAZ PA8090 6 MB96F673
- UAZ 236300 3801020 10 MB96F693 fw 1.28
- UAZ 236300 3801020 20 MB96F693 fw 1.34
- UAZ 3163 3801010 80 MB96F693
- UAZ 3163 3801010 81 MB96F693
- UAZ 3163 3801010 81 MB96F696
- UAZ 3163 3801010 82 MB96F693
- UAZ 316300 3801020 00 MB96F693
- UAZ 316300 3801020 20 MB96F693 fw 1.34
- UAZ 31638 3801010 80 MB96F693

- UAZ FERMER PA8160 MB96F673
- UAZ HUNTER PA8160 3 MB96F673
- UAZ HUNTER PA8160 4 v1 MB96F673
- UAZ HUNTER PA8160 4 v2 MB96F673
- UAZ HUNTER PA8160 4 v3 MB96F673
- URAL PA8160 6 MB96F673

Not all the software versions can be supported in the built-in calculators. If you do not find the calculator performance satisfactory, you can use a third-party calculator.

The module includes the recovery mode which allows to write even a blank microcontroller in case of the dashboard recovery.

## **License 49 - China Bosch M7.9.7/M7.9.7+/ME7.9.7/M7.8/ME7.8.8 IMMO**

IMMO OFF for Bosch M7.9.7/M7.9.7+/ME7.9.7/M7.8/ME7.8.8 installed in Chinese and ZAZ vehicles.

Supports working with the file read in BSL; automatic checksum correction.

Suggested car list:

Geely:

- FC\_1.8
- MC
- Otaka
- CK

Hafei:

- Brio\_1.1L
- Princip\_1.6L

Amulet:

- A11
- A11+
- A15+

Chery:

- Chery A113
- CrossEstar (B14)
- Kimo\_1.3 M11 (M12)
- QQ6 S11(Jaggi S21) 1.3
- S18d
- Tiggo
- Fora a520 (Estina a21, Elara a21)

- Vortex\_Tingo\_1.8L
- Bonus
- Corda

ZAZ:

- Forza

Brilliance\_V5:

- MA0L2D\_MA0L2D01
- NM0L2D\_NM0L2D01

Changan:

- CS35
- CX35

Great Wall:

- M2
- M3
- M4

Not all the software versions can be supported. To add a new software version, please contact the [support portal](#) and attach a file.

### **License 50 - Lada Granta/Datsun OnDo DASH BENCH/OBDII**

Mileage change, P\_FLASH reading/writing (the loader area is not written), D\_FLASH reading via OBD and on the bench.

The following dashboards are supported:

- Lada Granta 8450101019 (locked MCU 9S12HY64) ~ since 04.2018
- Lada Granta 8450101020 (locked MCU 9S12HY64) ~ since 12.2018
- Lada Granta 2190-3801010-20(MCU 9S12HY64) ~ since 2016
- Lada Granta 2190-3801010-40(MCU 9S12HY64) ~ since 2016
- Datsun on-DO 8450100528 ~ since 2018
- 118/2170-3801010 ITELMMA K-LINE (only odometer values change)

### **License 51 - VAG EDC17 MED17 CRC ODO**

Checksum correction, mileage change in EDC17 and MED17 ECUs in VAG vehicles. The file is to be read with a third party flasher!

Functionality:

- Mileage reading of MED17/EDC17 ECUs via OBD in metres;
- Automatic search for the mileage in the EEPROM file uploaded to the program;
- Correction of all found mileages;

- Calculation of ALL checksums in the EEPROM file after mileage correction.

## **License 52 - Hyundai/Kia SIM2K 140/141/341 IMMO OFF**

IMMO OFF (for example, for the system components checkup) in Sim2k-140\141\341 ECUs in KIA/Hyundai vehicles.

This ECU type has been installed in KIA/HYUNDAI vehicles since 2004. The module supports files read both via OBD and via BDM.

Suggested car list:

- Carens (UN)
- Cerato Forte (TD)
- Genesis Coupe (BK)
- Magentis (MG)
- SantaFe (CM)
- Sonata (NF)
- Sonata (YF)
- Sorento (XM)
- Sportage (SL\_SLE)
- Tucson ix35 (LM\_EL)

Not all the software versions can be supported. To add a new software version, please contact the [support portal](#) and attach a file.

## **License 53 - Siemens Simtec ECU R/W FULL FLASH OBDII**

FULL FLASH reading/writing

Supported ECUs:

- Simtec 71.5
- Simtec 71.6
- Simtec 75.1
- Simtec 75.5
- Simtec 81
- Simtec 81.1

The following areas are accessible:

1. FLASH Address space 0x0000 - 0x7FFFF
2. EEPROM Address space 0x4000 - 0x8000
3. Calibration Address space 0x70000- 0x7FFFF

Special features:

1. Reading, saving, writing of FULL FLASH necessary for cloning. For safety reasons cloning should be done on the bench;

2. Reading/writing of the map area for chip tuning (the license does not calculate the checksums, another editor is required);
3. Automatic ECU version identification;
4. FULL FLASH reading/writing time is 2 minutes.

Suggested car list:

- Opel Astra H (2004-2007) Z18XE
- Opel Vectra C (2002-2007) Z18XE
- Opel Signum (2002-2007) Z18XE
- Opel Astra H (2006-2009) Z16XER/Z18XER
- Opel Vectra C (2005-2009) Z18XER
- Opel Signum (2005-2009) Z18XER
- Opel Zafira B (2005-2009) Z16XER/Z18XER
- Opel Astra H (2007-2009) Z22YH
- Opel Vectra C (2003-2008) Z22YH
- Opel Signum (2003-2008) Z22YH
- Opel Zafira B (2005-2009) Z22YH

### **License 55 - MCU Renesas RH850 R7F701xxx**

Reading/writing of CFLASH / DFLASH / UBOOT/ OPBT0 memory of RENESAS RH850 R7F701xxxx via DENSO-UART to FTDI adapter.

The following processors are supported:

- R7F701400 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F701401 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F701402 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F701403 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F701404 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F701405 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F701406 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F701407 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F701421 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F701422 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F701423 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010023 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010024 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010033 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0

- R7F7010034 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010063 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010064 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010073 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010074 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010083 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010084 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010093 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010094 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010103 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010104 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010113 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010114 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010123 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010124 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010133 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010134 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010143 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010144 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010153 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010154 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010163 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010164 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010173 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010174 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010183 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010184 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010193 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010194 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010203 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010204 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010213 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010214 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0

- R7F7010223 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010224 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010233 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010234 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010243 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010244 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010253 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010254 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010283 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010284 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010293 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010294 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010303 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010304 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010323 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010324 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010333 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010334 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010343 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010344 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010423 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010424 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010433 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010434 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010543 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010623 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010643 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010673 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010713 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F701A033 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F701A223 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F701A313 READ,WRITE CFLASH//DFLASH//UBOOT//OPBT0
- R7F7010034 (can be found in SRS Hyundai i30)

- R7F7010123 (can be found in SRS Suzuki)
- R7F7010133 (can be found in SRS Renault)
- R7F7010193 (can be found in SRS Hyundai/Kia)
- R7F7010223 (can be found in SRS Toyota)
- R7F7010234 (can be found in SRS Range Rover)
- R7F7010423 (can be found in SRS Hyundai/Kia)
- R7F7010623 (can be found in SRS Honda)
- R7F7010643 (can be found in SRS Subaru)
- R7F7010673 (can be found in SRS GM)
- R7F7010713 (can be found in SRS Skoda)
- R7F701A033 (can be found in SRS Nissan Leaf)
- R7F701A033 (can be found in SRS Ford Mazda)
- R7F701A223 (can be found in SRS Toyota/Honda)
- R7F701A313 (can be found in SRS Hyundai/Kia)

The module has built-in calculators for erasing CRASH DATA:

- Hyundai/Kia Continental ECUs
- Toyota

Not all the software versions can be supported in the built-in calculators. If you do not find the calculator performance satisfactory, you can use a third-party calculator.

## **License 56 - GM ECU ACDelco E78**

### **Read/Write MPC5566\_Full\_Flash\_OBDII**

Though the module can read and write Full flash via OBD, it is recommended to work on the bench.

Reading/writing of MPC5566 Full Flash. Possible EEPROM and VID reading/writing. VID calculator which allows to transfer VIN, PIN and IMMO date from BCM(BCM reading IS NOT supported!).

Reading/writing time is 2-15 minutes and depends on the J2534 device manufacturer.

The following adapters are supported:

- **DrewTech Mongoose**
- **DrewTech CarDAQ**
- Scanmatik 2
- **DiaLink**
- **Chipsoft J2534 Lite** (with disabled OpenPort2 support)
- **Chipsoft J2534 Mid** (with disabled OpenPort2 support)

- **Chipsoft J2534 Pro** (with disabled OpenPort2 support)

Openport 2.0 is NOT supported!

Possible cloning.

Suggested car list:

- CHEVROLET AVEO
- CHEVROLET CRUZE
- CHEVROLET SONIC
- CHEVROLET SPARK
- OPEL ADAM
- OPEL ASTRA J
- OPEL INSIGNIA
- OPEL MERIVA B
- OPEL MOKKA

### **License 57 - GM\_BCM\_BOSCH\_R/W\_FULL\_FLASH**

Bench work required!!!

Reading/writing of NEC(RENESAS)Full Flash and EEPROM external microchip in GM BCM BOSCH ECUs.

Both 'open' and 'locked' microcontrollers are supported.

The work is done via CAN bus using a J2534 device. Reading/writing takes 2-5 minutes and depends on the J2534 manufacturer.

The supported BCM BOSCH:

- MCU NEC(RENESAS) D70F3385 + EEPROM 24C16
- MCU NEC(RENESAS) D70F3469 + EEPROM 24C16

Possible cloning.

Suggested car list:

- CHEVROLET AVEO
- CHEVROLET CRUZE
- CHEVROLET ORLANDO
- CHEVROLET SONIC
- CHEVROLET SPARK
- OPEL ASTRA J
- OPEL INSIGNIA
- OPEL MOKKA

The following adapters are supported:

- **DrewTech Mongoose**
- **DrewTech CarDAQ**
- Scanmatik 2

- [DiaLink](#)
- [Chipsoft J2534 Lite](#) (with disabled OpenPort2 support)
- [Chipsoft J2534 Mid](#) (with disabled OpenPort2 support)
- [Chipsoft J2534 Pro](#) (with disabled OpenPort2 support)

Openport 2.0 is NOT supported!

## **License 58 - GM\_BCM\_CONTINENTAL\_R/W\_FULL\_FLASH**

Bench work required!!!

Reading/writing of NEC(RENESAS)Full Flash and EEPROM external microchip in GM BCM CONTINENTAL ECUs.

Both 'open' and 'locked' microcontrollers are supported.

The work is done via CAN bus using a J2534 device. Reading/writing takes 2-5 minutes and depends on the J2534 manufacturer.

Supported BCM CONTINENTAL:

- MCU NEC(RENESAS) D70F3469 + EEPROM 25160

Possible cloning.

Suggested car list:

- CHEVROLET AVEO
- CHEVROLET CRUZE
- CHEVROLET ORLANDO
- CHEVROLET SONIC
- CHEVROLET SPARK
- OPEL ASTRA J
- OPEL INSIGNIA
- OPEL MOKKA

The following adapters are supported:

- [DrewTech Mongoose](#)
- [DrewTech CarDAQ](#)
- Scanmatik 2
- [DiaLink](#)
- [Chipsoft J2534 Lite](#) (with disabled OpenPort2 support)
- [Chipsoft J2534 Mid](#) (with disabled OpenPort2 support)
- [Chipsoft J2534 Pro](#) (with disabled OpenPort2 support)

Openport 2.0 is NOT supported!

## **License 59 - MCU Renesas V850**

CFLASH / DFLASH memory reading/writing of RENESAS V850 microcontrollers via DENSO-UART adapter with FTDI.

Supported processors:

- D70F3238
- D70F3344
- D70F3379
- D70F3385
- D70F3469
- D70F3628
- D70F3629
- D70F3633
- D70F3634

Suggested panel list: SRS, EPS, GATEWAY, BCM, etc.

## **License 60 - NISSAN-INFINITY HITACHI IMMO\_OFF**

IMMO OFF (e.g. for the system components checkup) in Hitachi ECUs installed in Nissan and Infinity vehicles from 2000 till 2010.

Supports files read both via OBDII and JTAG. Automatic checksum calculation.

Supported processors:

- SH705415N-384kb
- SH705507 -512kb
- SH705513N-512kb
- SH705519N-512kb
- SH705520N-512kb

Car list:

- NISSAN
  - ALMERA (N16)
  - BLUEBIRD (G11)
  - CUBE (Z11)
  - FAIRLADY Z (Z33)
  - MARCH (K12)
  - MICRA (K12),(K12E)
  - MURANO (Z50)
  - NOTE (E11),(E11E)
  - PATHFINDER (R50)
  - PATROL GR (Y61)
  - PRIMERA (P11E),(P12E)
  - QASHQAI (J10E)
  - SERENA (C25)
  - TEANA (J31)
  - TIIDA (C11X),(C12W)

- X-TRAIL (T30)
- INFINITY
  - FX35 (S50)
  - FX45 (S50)
- - **License 61 - Siemens Simtec 76 ECU R/W FULL FLASH OBDII**
- Full flash reading/writing;
- \*Simtec 76
- Supported areas:
- FLASH
- EEPROM
- Features:
  - Reading, saving and flashing of FULL FLASH necessary for cloning. For safety reasons it is recommended to clone ECUs on the bench;
  - FULL FLASH reading/writing takes about 2 minutes.
- Suggested car list:
  - Chevrolet Cruze
  - Chevrolet Orlando

### **License 63 - VAG VDO NEC+24C64 OBD**

The module allows to work with dashboards via the diagnostic connector or on the bench with/without the dongle.

- EEPROM R/W 24c64;
- IMMO DATA R/W;
- Container creation for TANGO (the container is written on MEGAMOS 48W);
- Built-in IMMO editor: CS, MAC, LOGIN, VIN;
- Mileage R/W.

The brand list will be added to the software and will include AUDI, SEAT, SKODA, VW and models.

The following dashboards will be supported:

- NEC + 24C64 06/2010+
- NEC + 24C64 06/2012+
- NEC + 24C64 06/2014+
- NEC + 24C64 TFT 06/2014+

The following dashboards have been tested:

- 5N0920973E
- 5N0920872B
- 5K0920862X

- 3AA920870CX
- 5K0920870DX
- 5C6920861X
- 5C6920953B
- 2H0920863X
- 5JA920810B
- 5J0920811E
- 5J0920810E
- 1Z0920803BKD0
- 8U0920930G
- 8U0920940A
- 8P0920932KX
- 8×0920930

### **License 64 - GM ACDelco GEN1/2 OBDII**

This module allows working via OBDII connector via CAN-bus with the control units ACDelco Gen1 (1st generation ECU-2 Byte SeedKey) and ACDelco Gen2 (2nd generation ECU — 5 Byte SeedKey), equipped on GM vehicles: Cadillac, Chevrolet, GMC, Hummer, Opel.

Module supports:

- ECU Identification
- Error Reading/Clearing
- Reading of the Processor FullFlash / Writing calibration area

The read / write procedure takes from 2 to 10 minutes, depending on the type of ECU and the adapter used. This module does not calculate checksums.

ECU type with the MC:

- GM ACDelco E38 Motorola MPC561
- GM ACDelco E39 Motorola MPC5566
- GM ACDelco E39A Motorola MPC5566
- GM ACDelco E78 Motorola MPC5566
- GM ACDelco E80 Motorola MPC5676
- GM ACDelco E83 Motorola MPC5565

Adapters to work with:

- DrewTech Mongoose
- DrewTech CarDAQ
- Skanmatik 2/2 PRO

- SMS — DiaLink
- Chipsoft J2534 Lite (with OpenPort2 support disabled)
- Chipsoft J2534 Mid (with OpenPort2 support disabled)
- Chipsoft J2534 Pro (with OpenPort2 support disabled)
- Openport 2.0 is not supported

Attention! The operation of this module is completely safe, in case of loss of communication during recording, for example, if the battery on a laptop or the battery on a car runs out, it is enough to repeat the recording procedure and the operation will be restored.

## **Licence 65 - Renault ECU PETROL OBDII**

This module allows you to work via the OBDII connector via CAN-bus with engine control units EMS3110, EMS3120, EMS3125, EMS3150, EMS3155, Hitachi based on the SH705822N processor, Valeo V40/V42, Sagem 3000, equipped on Renault, Dacia, Nissan, VAZ cars.

Available functions:

- ECU Identification
- Error Reading/Clearing
- Reading / Writing the calibration area and the ECU program
- Reading / writing procedure takes from 2 to 10 minutes, depending on the type of ECU and the adapter used
- The module calculates the checksum of the calibration area

Adapters to work with:

- DrewTech Mongoose
- DrewTech CarDAQ
- Skanmatik 2/2 PRO
- SMS — DiaLink
- Chipsoft J2534 Lite (with disabled OpenPort2 support)
- Chipsoft J2534 Mid (with OpenPort2 support disabled)
- Chipsoft J2534 Pro (with OpenPort2 support disabled)
- Openport 2.0 is not supported

List of supported vehicles and ECUs:

VAZ

- Largus 1.6 H4M — Continental EMS3125
- Largus K4M — Continental EMS3120
- X-Ray 1.6 K4M — Continental EMS3125
- Vesta 1.6 K4M — Continental EMS3125

DACIA

- Dokker 1.2 TCe H5F — Continental EMS3155
- Duster 1.2 TCe H5F — Continental EMS3155
- Duster 1.6 K4M — Valeo V40/V42
- Duster 1.6 K4M — Continental EMS3110
- Duster 2.0 F4R — Valeo V40/V42
- Lodgy 1.2 TCe H5F — Continental EMS3155
- Logan 1.6 H4M — Continental EMS3125
- Logan K4M — Continental EMS3120

#### NISSAN

- Almera 1.6 H4M — Continental EMS3125
- Almera K4M — Continental EMS3120
- Juke 1.2 DIG-T HR12DDT — Continental EMS3155
- Pulsar 1.2 DIG-T HR12DDT — Continental EMS3155
- Qashqai 1.2 DIG-T HR12DDT — Continental EMS3155
- Terrano 1.6 H4M — Continental EMS3125
- Terrano 2.0 F4R — Continental EMS3125

#### RENAULT

- Clio 3 1.2 D4F — Continental EMS3110
- Clio 4 1.2 D4F — Continental EMS3125
- Clio 4 1.2 TCe H5F — Continental EMS3155
- Clio 4 1.6 K4M — Valeo V40/V42
- Duster 1.6 K4M — Valeo V40/V42
- Duster 1.6 K4M — Continental EMS3125
- Duster 2.0 F4R — Valeo V40/V42
- Fluence 1.6 K4M — Valeo V40/V42
- Fluence 2.0 M4R — Continental EMS3110
- Kadjar 1.2 TCe H5F — Continental EMS3155
- Kangoo 1.6 K4 M-Continental EMS3110
- Kaptur 1.6 K4M — Continental EMS3125
- Kaptur 2.0 F4R — Continental EMS3125
- Latitude 2.0 M4R — Continental EMS3110
- Logan 1.6 H4M — Continental EMS3125
- Logan K4M — Continental EMS3120
- Megan 3 1.4 TCe H4J — Valeo V40/V42

- Megan 3 1.6 K4M — Valeo V40/V42
- Megan 3 2.0 M4R — Continental EMS3110
- Megan 3 2.0 TCe F4R-T — Continental EMS3110
- Megan 4 1.2 TCe H5F — Continental EMS3155
- Modus 1.2 D4F — Continental EMS3110
- Sandero 1.6 H4M — Continental EMS3125
- Sandero 2.0 RS F4R — Continental EMS3125
- Scenic 3 1.4 TCe H4J — Valeo V40/V42
- Scenic 3 1.6 K4M — Valeo V40/V42
- Scenic 3 2.0 M4R — Continental EMS3110
- Scenic 4 1.2 TCe H5F — Continental EMS3155
- Koleos/Latitude 2.5 — SH705822N (Hitachi SH7058/1MB)

Attention! The operation of this module is completely safe, in case of loss of communication during writing, for example, if the battery on a laptop or the battery on a car runs out, it is enough to repeat the recording procedure and the operation will be restored.

### **Licence 66 - Renault/VAZ ABS/ESP BOSCH OBDII**

This module allows working via OBDII connector via CAN-bus with the control units ABS/ESP BOSCH 9.0-9.1 with MC TMS470, TMS570 and EEPROM 95128/95320/95640, equipped on the following vehicles: Renault, Dacia, Nissan, VAZ, 2014+

Module supports:

- ECU Identification
- Error Reading/Clearing
- EEPROM Reading / Writing
- Reading FullFlash / Writing calibration and software area
- VIN data changing
- ECU reset
- Backups are saved automatically to the «Backup» folder. Even if you have accidentally deleted the file after reading, you can find it in the folder with the date and time of creation in the title.

EEPROM reading / writing takes from 7 to 15 seconds, depending on the processor and the adapter used.

Approximate vehicle list:

- Dacia Duster
- Dacia Logan
- Dacia Sandero

- Lada Vesta
- Lada X-Ray
- Nissan Terrano
- Renault Duster
- Renault Logan
- Renault Sandero
- Renault ClioIV
- Renault Captur
- Renault Kaptur

Checked ECUs:

- TMS470+95320 — 2014
- TMS470+95320 — 2015
- TMS570+95128 — 2016
- TMS570+95128 — 2017
- TMS570+95128 — 2018
- TMS570+95128 — 2019
- TMS570+95128 — 2020
- TMS570+95320 — 2017
- TMS570+95640 — 2016

Attention! The operation of this module is completely safe, in case of loss of communication during recording, for example, if the battery on a laptop or the battery on a car runs out, it is enough to repeat the recording procedure and the operation will be restored.

### **License 67 - VAG ECU Magneti Marelli 4HV/7GV EEPROM 95320 OBDII**

Via OBD or on the bench;

EEPROM R/W — 95320 EEPROM reading/writing;

Built-in IMMO, CS, MAC, LOGIN, VIN editor;

There is no need to open the ECU and solder 95320 EEPROM out in order to work with an external flashing tool. It is a great advantage which allows to preserve the ECU seals.

The module allows to clone the IMMO data, edit it and write it back.

These ECUs were installed in VW Polo 2009–2018, SCODA Rapid with 1.6L CFNA/CFNB/CLRA Magneti Marelli 7GV, 1.4 BUD/BXW/CGGA/CGGB Magneti Marelli 4HV engines.

### **License 68 - HYUNDAI KIA EDC17 CRC ODO**

This license is a dump editor. It allows mileage changing with checksum recalculation in the files read from EEPROM area of the TRICORE processor in EDC17 diesel ECUs installed on KIA and HYUNDAI vehicles.

The module supports:

- Reading the mileage of KIA and HYUNDAI vehicles via OBDII in meters
- Reading the total operating time of KIA and HYUNDAI vehicles via OBDII in minutes
- Automatic search for the specified mileage in the EEPROM dump loaded into the program.
- Changing all found mileages to those specified by the user.
- Calculation of all checksums of the EEPROM dump after changing the mileage.

The license has in-built calculators.

To expand the list of supported ECUs, feel free to send dumps to technical support with exact data read by the module via CAN.

### **License 69 - Renault ECU DIESEL OBDII**

This module allows to work via OBDII connector via the CAN bus with the Delphi DCM3.4, SID301 / 303 / 304 / 305 / 306 / 307 engine control units based on the SH7059, MPC562, TC1766, TC1767 processor installed on Renault, Dacia, Nissan vehicles.

The module supports:

- ECU Identification
- Error Reading/Clearing
- Reading / Writing calibration and software area
- VIN reading/writing

### **License 70 - Hyundai - Kia SIEMENS VDO SIMK43 IMMO\_OFF**

The module allows to do IMMO OFF (e.g. for checking up the system components) in SIEMENS VDO ECUs installed in Hyundai and Kia vehicles from 2001 to 2010. It requires a Full Flash file read in BSL or by a programming tool.

Additional functions:

- Siemens -> Bin converter
- Bin -> Siemens converter
- checksum correction

Suggested car list:

- Hyundai Coupe (Tiburon) (GK)
- Hyundai Elantra (XD, HD)
- Hyundai Matrix (FC)
- Hyundai Santa\_Fe (SM)

- Hyundai Sonata (EF)
- Hyundai Tucson (JM)
- Kia Ceed (ED)
- Kia Cerato (LD)
- Kia Magestik (MG)
- Kia Sportage (KM)

Supported software:

- ca661010
- ca661016
- ca661018
- ca663031
- ca663040
- ca663056
- ca665022
- ca665023
- ca669012

## **License 71 - Hyundai/Kia ECU BOSCH PETROL OBDII**

This module allows working via OBDII connector via CAN-bus or K-Line with BOSCH M7.9.2 / M7.9.7 / M (G) 7.9.8 / ME17.9.11 / ME17.9.11.1 / ME (G) 17.9.12 / ME (G) 17.9.13 ECUs based on processors ST10, C167, TC1762 equipped on Hyundai and Kia vehicles.

Module supports:

- ECU Identification
- Error Reading/Clearing
- Reading of the Processor FullFlash / Writing calibration area
- Automatic check and preparation (if required) of files for writing on ME17.9.11 / ME17.9.11.1 / ME (G) 17.9.12 / ME (G) 17.9.13.

Reading and writing of calibrations and control program via OBDII for the following ECUs:

- ME17.9.11 — File size of FLASH memory 1.46 MB (1 540 096 bytes)
- ME17.9.11.1 — Flash memory size 1.46 MB (1,540,096 bytes)
- ME (G) 17.9.12 — File size FLASH memory 1.46 MB (1 540 096 bytes)
- ME (G) 17.9.13 — File size FLASH memory 1.46 MB (1 540 096 bytes)

Writing via OBDII for:

- M7.9.2 — File size of FLASH memory 512 KB (524 288 bytes)

- M7.9.7 — File size of FLASH memory 512 KB (524 288 bytes)
- M7.9.8 — File size of FLASH memory 832 Kb (851968 bytes)
- M (G) 7.9.8 — File size FLASH memory 832 Kb (851968 bytes)

## **License 72 - Hyundai/Kia ECU SIMK43/SIM2K-47 PETROL OBDII**

This module allows working via OBD by K-Line with SIMK43 / SIM2K-47 ECUs with C167 processors equipped on Hyundai, Kia vehicles.

The module supports:

- ECU identification
- Error Reading/Clearing
- FullFlash Reading / Writing calibration area
- Automatic check of files and checksum correction of calibration area

SIMK-43 — calibration FLASH filesize — 512 Kb (524 288 b)

SIM2K-47 — calibration FLASH filesize — 512 Kb (524 288 b)

## **License 73 - GAZ ECU MIKAS12 PETROL OBDII**

This module allows working via OBD by K-Line with petrol ECUs Mikas12 with Infineon XC27xx processor in GAZ vehicles.

1. XC2765 — File size of FLASH — 832 kb (851 968 b)
2. XC2768 — File size of FLASH -1088 kb (1 114 112 b)

The module supports:

- ECU Identification
- Reading of the registration data
- DTC reading, clearing
- ECU reset
- ECU initialization
- Flash reading and writing
- EEPROM reading and writing
- Registration editor
- Recovery mode

## **License 74 - GM ECU ACDelco E39A**

### **Read/Write\_MPC55xx\_Full\_Flash\_OBDII**

Full flash reading, map area writing via OBD. No checksum correction.

Full flash reading/writing; EEPROM reading/writing (EEPROM and VID).

Password reading; ECU cloning on the bench. Recovery mode: allows to recover the ECU which do not respond via CAN bus or bricked ECUs. Recovery is possible only when there is the ECU password.

Suggested car list:

- BUICK LaCrosse
- BUICK Regal
- BUICK Verano
- CADILLAC ATS
- CADILLAC SRX
- CADILLAC XTS
- CHEVROLET Camaro
- CADILLAC Impala
- CADILLAC Malibu
- GMC Canyon
- OPEL Insignia

### **License 75 - GM\_TCM\_6T30\_6T35\_6T40\_6T45\_6T50\_Full\_Flash\_OBDII**

Full flash reading/writing; EEPROM reading/writing.

Allows not to reflash the boot sector; cloning. Even though full flash reading/writing is supported via OBD, it is recommended to perform the cloning procedure on the bench.

Reading/writing time is 2-15 min depending on the J2534 device manufacturer.

Suggested car list:

- CHEVROLET Orlando
- CHEVROLET Cruze
- CHEVROLET Malibu
- CHEVROLET Captiva
- OPEL Astra J
- OPEL Antara

### **License 76 - LADA VAZ TCM**

FLASH reading/writing of VAZ TCMs.

Additional feature of VIN change which allows to mount a second-hand TCM.

Reading/writing time takes 2-15 minutes, depending on the J2534 device.

Suggested car list:

- Lada Granta
- Lada Priora

- Lada Vesta
- Lada XRAY

## **License 77 - GM ECU ACDelco E87**

### **Read/Write\_MPC55xx\_Full\_Flash\_OBDII**

1. Full FLASH reading, map area writing via OBD without checksum correction. (Chip tuning)
2. Full FLASH reading/writing; EEPROM reading/writing (EEPROM and VID unit). Password reading. Even though the license allows to read/write Full via OBD, it is recommended to clone the ECU on the bench. (Cloning)
3. Recovery mode: to recover ECUs that do not respond via CAN. Possible only if you have the ECU password.

Suggested car list:

- Chevrolet Cruze 1.7 VCDI
- Chevrolet Trax 1.7 VCDI
- Opel Astra(J) 1.7 VCDI
- Opel Corsa(D) 1.7 VCDI
- Opel Meriva(B) 1.7 VCDI
- Opel Mokka 1.7 VCDI

## **License 78 - MCU INFINEON XC2xxxx, C167, ST10**

This module allows working on the bench in BSL with different ECUs with Infineon XC2xxx, C167, ST10

The module supports:

- FLASH MK Reading
- FLASH MK Writing

Approximate ECU list:

1. XC2060
2. XC2765
3. XC2768

M74, M86

ST10

1. Mikas 11.CR/VS8
2. Mikas 11ET/TM
3. Janvar 7.2+
4. M73(Itelma)/M74K
5. Bosch Kefico M(G)7.9.8

C167

1. Siemens Simos 3.x
2. Siemens Simos 7.1

3. Siemens Simos 9.1
4. Sirius D3 / 4R
5. Sirius D32 / D42 / 42R / D52
6. Simtec 71.6(GM)
7. Simtec 75(GM)
8. Simtec 76(GM)
9. EMS3132
10. EMS3134
11. SIMK41/SIMK42/SIMK43 29F200BB
12. SIMK42/SIMK43/SIM2K47 29F400BB

### **License 79 - Lada Vesta SRS TAKATA OBDII**

This module allows working via OBDII or on the bench with SRS Takata ECUs with SPC560P34L1 on Lada Vesta. Allows ECU recovering.

Supported ECUs:

1. 8450007028
2. 8450007029

The module supports:

- Identification
- Error Reading
- Error erasing
- VIN reading
- Initialization
- Deinitialization
- Crash data erasing

### **License 80 - Ford/Mazda SRS TriCore Aurix TC2xx OBDII**

This module allows working via OBD or on the bench with SRS ECUs with TriCore Aurix TC2xx in Ford/Mazda.

The module supports:

- Identification
- Error reading
- Error erasing
- DFLASH reading
- DFLASH writing

### **License 81 - Hyundai/Kia SRS TriCore Aurix TC2xx OBDII**

This module allows working via OBD or on the bench with SRS ECUs with TriCore Aurix TC2xx in Hyundai/Kia.

The module supports:

- Identification
- Error reading
- Error erasing
- DFLASH reading
- DFLASH writing

Not all software versions are supported. If the software versions are not supported by this license, please contact the support on [this portal](#). Please also include a photo of the ECU and the full information regarding CFLASH, DFLASH, UCB, OTP, etc.

### **License 82 - Nissan/Infinity SRS TriCore Aurix TC2xx OBDII**

This module allows working via OBD or on the bench with SRS ECUs with TriCore Aurix TC2xx in Nissan/Infinity.

The module supports:

- Identification
- Error reading
- Error erasing
- DFLASH reading
- DFLASH writing

Not all software versions are supported. If the software versions are not supported by this license, please contact the support on [this portal](#). Please also include a photo of the ECU and the full information regarding CFLASH, DFLASH, UCB, OTP, etc.

### **License 83 - Renault/Dacia Renesas D70F3525/D70F3532/RH850 ODO OBDII**

The module works with Renesas RH850 R7F701400, Renesas D70F3525, Renesas D70F3532, Renesas D70F3532 dashboards via OBD or in the bench.

The module supports:

- Dashboard identification (Continental, Visteon)
- Errors reading / erasing (Continental, Visteon)
- Dashboard mileage changing (might be required for used vehicle parts) (Continental, Visteon)
- Virtual EEPROM reading and writing (Continental, Visteon)
- Reading Code Flash (Continental)

- ECU reset

Approximate list with vehicles that have these dashboards:

- Renault Arkana
- Renault Duster
- Renault Espace V
- Renault Kadjar
- Renault Koleos II
- Renault Megane IV
- Renault Scenic IV
- Renault Talisman
- Dacia Logan II
- Dacia Sandero II
- Dacia Duster II

Please note: the module works with the dashboard (without changing / patching CFLASH), the vehicles also have an active duplicate of the current mileage in ABS, you need to change the readings in ABS or install a CAN filter for it to work properly.

### **License 84 - GM Bosch BCM BENCH D70F3558 + 24C32/Continental BCM BENCH D70F3558 + 25320**

Bosch BCM, Continental Gen.1 (2 byte SeedKey), Gen.2 (5 byte SeedKey).

Full Flash reading of NEC(RENESAS).  
Full Flash writing of NEC(RENESAS).  
EEPROM Reading/Writing

Direct connection is required (working is done on the bench).

The following ECUs are supported:

1. MCU NEC(RENESAS) D70F3558 + EEPROM 24C32
  2. MCU NEC(RENESAS) D70F3558 + EEPROM 25320
- Not all software versions might be supported.

### **License 85 - VAG\_DSG\_CRC\_ODO**

This module is a dump editor which allows mileage correction with checksum corrections from the read EEPROM from the processor in the DSG DQ200, DSG DQ200\_MQB, DSG DQ200G2, DSG DQ250E / F (02E) units installed on VAG vehicles.

The module supports:

- Mileage reading of VAG vehicles via OBDII.

- Automatic search for the mileage in the EEPROM file uploaded to the program.
- Correction of all found mileages.
- Calculation of ALL checksums in the EEPROM file after mileage correction.

Not all software versions are supported. If the software versions are not supported by this license, please contact the support on [this portal](#). Please also include a photo of the ECU and the full information regarding CFLASH, DFLASH, UCB, OTP, etc.

### **License 86 - GM ECU Sirius D3/D32/4R/42R/D42/D52**

SiriusD3/D32/4R/42R/D42/D52 of GM vehicles.

The module has two tabs for working with these ECUs and has the following functions:

OBDII tab:

- ECU identification (via OBDII).
- Base software and calibration area reading (via OBDII).
- Calibration area writing (via OBDII).
- Recalculation of checksums.

Bench tab (BSL mode), cloning:

- Full Flash Reading
- Full Flash Writing
- EEPROM Reading
- EEPROM Writing

Not all software versions might be supported.

### **License 87 - Haval H6/H9/F7/Jolion, Great Wall Poer DASH BENCH/OBDII**

The module allows working with Renesas RH850 R7F701404, R7F701428, NEC 70F3529, NEC 70F3532 MCs in Continental VDO, CYM (Haval Jolion only) instrument panels installed on Haval H6/H9/F7, Jolion and Great Wall Poer cars, via the diagnostic connector or on the bench (connection in the help) OBDII.

The module supports:

- Dashboard identification
- Error reading / erasing
- Dashboard mileage changing (might be required for used vehicle parts)
- Virtual EEPROM reading and writing
- Code Flash reading
- VIN reading / editing

- ECU resetting
- Resetting the service interval
- Configuration reading / writing

## **License 88 - Dacia/Lada/Nissan/Renault EMS3120/EMS3125/ValeoV4x\_IMMO\_OFF**

IMMO OFF for Siemens EMS3120/EMS3125/ValeoV40/42 on Dacia, Lada, Nissan and Renault vehicles.

Full flash file read in BSL mode is required for working with this license.

Additional functions:

- The checksums are automatically calculated

Vehicle list with these ECUs:

- Dacia Duster
- Dacia Logan
- Dacia Sandero
- Dacia Dokker
- Dacia Lodgy
- Lada Largus
- Lada X-Ray
- Nissan Terrano
- Nissan Almera
- Renault Duster/Kaptur
- Renault Logan 2
- Renault Sandero 2
- Renault Megane 3
- Renault Fluence
- Renault Clio IV
- Renault Clio V

Supported software:

EMS3120

- EMS3120\_RDC230
- EMS3120\_RDC540
- EMS3120\_RDC560
- EMS3120\_RDC570
- EMS3120\_RDC580

- EMS3120\_RDC820
- EMS3120\_RDC830
- EMS3120\_RDC840
- EMS3120\_RDC900

#### EMS3125

- EMS3125\_RDE5F0
- EMS3125\_RDE320
- EMS3125\_RDE450
- EMS3125\_RDE470
- EMS3125\_RDE530
- EMS3125\_RDE540
- EMS3125\_RDE570
- EMS3125\_RDE580
- EMS3125\_RDE590

#### Valeo V4x

- 0734R
- 0107R
- 1730R
- 1793R
- 1794R
- 3058R
- 3064R
- 4864R
- 4868R
- 4870R
- 3792R
- 2047R
- 3340R
- 3348R
- 5379R
- 5380R
- 6022R
- 6023R
- 2046R

- 4800R
- 5849R
- 6029R
- 6918R
- 1348R
- 2068R
- 3512R
- 4226R
- 4227R
- 6003R
- 6004R

### **License 89 - GM Delphi BCM BENCH D70F3238+93C86/Delphi BCM BENCH D70F3633**

Delphi BCM

- Full Flash Reading NEC (RENESAS)
- Full Flash Writing NEC (RENESAS)
- EEPROM (93C86) Reading, Writing
- DFLASH (D70F3633) Reading, Writing

Direct connection is required (working is done on the bench).

The following ECUs are supported:

1. MCU NEC (RENESAS) D70F3238+ EEPROM 93C86
2. MCU NEC (RENESAS) D70F3633

Not all software versions might be supported.

### **License 90 — GM ACDelco E37/E38 ECU BENCH/OBDII**

The module works with ACDelco E37/E38 in OBDII Mode or Bench Mode.

1. OBDII Mode (working in the vehicle):

- Identification
- Error reading
- Error reset
- Flash reading
- Calibration area writing (without checksum corrections)

2. Bench Mode:

- Flash reading

- Flash writing (without checksum corrections)
- EEPROM reading
- EEPROM writing

Not all software versions may be supported.

## **License 91 — Hyundai/Kia Siemens SIM2K ECU BENCH/OBDII**

Siemens ECUs with INFINEON TRICORE and MOTOROLA MPC5xx

- ECU Identification
- Error reading/clearing
- Full Flash Reading/Calibration area Writing
- Automatic checksum corrections of the calibration area

Working via OBD via CAN-bus (in the vehicle with working IMMO):

- SIM2K-240 — File size of FLASH memory 2,00 Mb (2 097 152 bytes)
- SIM2K-241 — File size of FLASH memory 2,00 Mb (2 097 152 bytes)
- SIM2K-242 — File size of FLASH memory 2,00 Mb (2 097 152 bytes)
- SIM2K-245 — File size of FLASH memory 2,00 Mb (2 097 152 bytes)

Working via OBD via CAN-bus (in the vehicle or via direct connection on the bench):

- SIM2K-141 — File size of FLASH memory 2,00 Mb (2 097 152 bytes)
- SIM2K-142 — File size of FLASH memory 2,00 Mb (2 097 152 bytes)
- SIM2K-143 — File size of FLASH memory 2,00 Mb (2 097 152 bytes)
- SIM2K-341 — File size of FLASH memory 2,00 Mb (2 097 152 bytes)

Not all software options are supported.

## **License 92 - GM ACDelco E80/E82/E84 ECU BENCH/OBDII**

The module allows working with ACDelco E80/E82/E84 ECUs in OBDII Mode, Bench Mode and Recovery.

1. OBDII Mode:

- Identification reading
- Error reading
- Error reset
- Flash Reading
- Calibration area writing (without the checksums recalculated)

2. Bench Mode:

- Flash Reading
- Flash writing (without the checksums recalculated)

- EEPROM Reading
  - EEPROM Writing
3. Recovery Mode:
- Flash Reading
  - Flash writing (without the checksums recalculated)
  - EEPROM Reading
  - EEPROM Writing

Not all software versions might be supported.

### **License 93 — Jaguar/Land Rover SRS BENCH/OBDII**

Supports working via OBDII or on the bench with SRS units installed on Jaguar / Land Rover vehicles, which allows doing full-fledged repair and restoration work with ECU data.

ECU with INFINEON XC2361 processor:

- Identification
- Error Reading
- Error Reset
- DFLASH Reading
- DFLASH Writing

ECU with Tricore Aurix TC2xx processor:

- Identification
- Error Reading
- Error Reset
- Clearing collision information via CAN.

Not all software versions may be supported.

### **License 94 - Ford Continental ECU/TCM OBDII**

OBDII Mode(in the car and on the bench):

- Identification
- Error reading
- Error reset
- Flash reading (available only for EMS2101/EMS2102)
- Virtual reading (file ID reading)
- Flash writing with map area checksum correction

VBF to BIN converter

Supported ECU:

- ECM EMS2101
- ECM EMS2102
- ECM EMS2204
- ECM EMS2205
- ECM EMS2211
- ECM EMS2214
- TCM 6DCT250

Not all software versions may be supported.

### **License 95 — Ford Siemens ECU OBDII**

Siemens ECM on Ford vehicles:

OBDII Mode (work on car or on the bench):

- Identification
- Errors Reading
- Error Reset
- Flash Reading
- Flash Writing with recalculation of checksums of the calibration area
- Adaptation Reset

List of supported ECUs:

- SIM21
- SIM22
- SIM28
- SIM29
- SIM210

Not all software versions are supported.

### **License 96 — Ford Visteon ECU OBDII**

ECM Visteon on Ford vehicles:

OBDII Mode (work in the car):

- Identification
- Errors Reading
- Errors Reset
- Reading Flash
- Flash Writing with recalculation of checksums of the calibration area

- Initialization

List of supported ECUs:

- ECM Visteon ESU-121
- ECM Visteon ESU-131
- ECM Visteon ESU-312
- ECM Visteon ESU-411
- ECM Visteon ESU-412
- ECM Visteon ESU-415
- ECM Visteon ESU-418

Not all software versions may be supported.

### **License 97 — Ford Delphi DCM Diesel ECU OBDII**

ECM Delphi DCM Diesel on Ford vehicles

- OBDII Mode (working on car or on the bench):
  - Identification Reading
  - Errors Reading
  - Errors Reset
  - Reading Flash (calibration area)
  - Flash Writing (calibration area with checksum recalculation)

List of supported ECUs:

- DKM 3.5
- DCM 6.1

Not all software versions may be supported.

### **License 98 — GM ACDelco E98 ECU BENCH/OBDII**

The module works with the ACDelco E98 ECU via OBDII, on the Bench and in Recovery mode.

OBDII Mode (work on car):

- Identification
- Errors Reading
- Error Reset
- Flash Reading
- Flash Writing of the calibration area without the CS

Bench Mode:

- Flash Reading

- Flash writing (without the checksums recalculated)
- EEPROM Reading
- EEPROM Writing

Recovery Mode:

- Flash Reading
- Flash writing (without the checksums recalculated)
- EEPROM Reading
- EEPROM Writing

Not all software versions may be supported.

### **License 99 — GM ACDelco E92ECU BENCH/OBDII**

1. OBDII Mode (work on car):

- Reading Identification
- Error Reading
- Error Reset
- Flash Reading
- Calibration area writing (without checksum recalculation)

2. Bench Mode (work on the bench):

- Flash Reading
- Flash Writing (no checksum recalculation)
- EEPROM Reading
- EEPROM Writing

3. Recovery Mode (desktop recovery mode):

- Flash Reading
- Flash Writing (no checksum recalculation)
- EEPROM Reading
- EEPROM Writing

4. File editor:

- ECU virginize
- KM change

The module allows you to work with the ACDelco E92 ECU in OBDII Mode, Bench Mode and Recovery.

Not all software versions may be supported.

### **License 101 — GM Radio BENCH/OBDII**

Allows working via the OBDII connector or on the bench with multimedia units installed on GM cars, which allows for full-fledged repair and restoration work with ECU data.

Scope of application: Change of region, Used installation, frequency step, language, expansion of functionality by changing calibrations (Recording calibrations).

Functions:

- Identification
- VIN Reset
- Calibrations writing

The **Scanmatik** adapter is recommended. Stable internet connection is required. Not all software versions may be supported.

### **License 108 — VAG Siemens K-Line SRS BENCH/OBDII**

Supports working via OBDII or on the bench with SRS Siemens VW2, VW3, VW5, VW6, VW51, VW52, VW61 ECUs installed on VAG vehicles, which allows to carry out full-fledged repair and restoration work with ECU data.

- Identification
- EEPROM Reading
- EEPROM Writing
- Calculator for Siemens VW2, VW3, VW5, VW51, VW52, VW6, VW61 ECU (file editing)

Attention! The license works ONLY with **Scanmatik**. Not all software versions may be supported.

### **License 109 — VW Polo 6RF(U)92086x BENCH/OBDII**

Supports working via OBDII or on the bench with 6RF(U)92086x dashboards (white indication) based on the 70F3524 microcontroller without external EEPROM, installed on VAG Polo cars since 2014, which allows full repairing and ECU restoration.

OBD or bench work with dashboard is POSSIBLE ONLY AFTER PRELIMINARY READING of D70F3524 DFLASH MK via a programmer (any programmer for reading a closed NEC and saving the read file in open form).

- Identification
- Mileage reading
- Mileage change
- EEPROM reading
- EEPROM writing
- Immobilizer data reading
- Immobilizer data writing

- Viewing and editing immobilizer data

Not all software versions may be supported.  
**M&D Flasher Adapter** might be helpful.

### **License 111 — Acura/Honda SRS SPC56xx/Renesas H8Sx1725 BENCH/OBDII**

Allows working via the OBDII connector or on the bench with SRS based on the SPC56xx/Renesas H8Sx1725 MK installed on Acura and Honda cars, which allows for full-fledged repair and restoration work with ECU data.

Functions:

- Identification
- Reading Errors
- Erase errors
- Clearing collision information via CAN

The **Scanmatik** adapter is recommended. Stable internet connection is required.  
Not all software versions may be supported.

### **License 113 — China Bosch ECU Petrol BENCH/OBDII**

Reading in BSL mode (with opening on the bench) and writing without opening on the bench or on the car.

The following ECU types are supported:

- Bosch M7.9.7 K-Line based on C167 processor with external Flash 512kb, supports BSL reading, writing on the table without opening or on the car, correction of the COP.
- Bosch ME7.9.7 K-Line based on C167 processor with external Flash 1Mb, supports reading BSL, writing on the table without opening or on the car, correction of the COP.
- Bosch M7 / Bosch M7.8 / Bosch M7.8.0 / Bosch M7.8.8 / Bosch M7.9.7.1 K-Line based on ST10F275 processors with 832 KB internal Flash memory, supports BSL reading, writing with protection disabled, on the table without opening or on the car, correction of the COP.
- Bosch ME7.8.8 CAN based on ST10F275 processors with 832 KB internal Flash memory, supports BSL reading, writing with protection disabled, on the table without opening or on the car, correction of the COP.

Not all software versions may be supported.

### **License 115 — advanced functions for licenses 27, 28 Hyundai/Kia OBDII**

Provides expanded functionality - working with instrument panels via the OBDII connector (where technically possible), installed on Hyundai/Kia cars since 2018, which allows for full-fledged repair and restoration work.

To work, you need a constant connection to the Internet. This add-on only works as part of licenses 27, 28.

Not all software versions may be supported.

### **License 117 — Subaru SRS Renesas RH850 BENCH/OBDII**

Working via OBDII or on the bench with Bosch SRS units based on the Renesas RH850 R7F7010643 MK installed on Subaru Forester cars, which allows full repairing and restoration work with ECU data.

Functions:

- Identification
- Errors Reading
- Errors Erasing
- Clearing collision information via CAN

Not all software versions may be supported.

### **License 118 — GM EPS BENCH/OBDII**

License for working with Bosch brand electric power steering on MK Nec V850 70F3187 + EEPROM 95080 on the bench or via the OBDII connector (where it is technically possible) installed on GM cars, which allows for full repair and restoration work.

Module functions:

- Identification
- Reading/Writing FLASH 70F3187
- Reading/Writing EEPROM 95080

Not all software versions are supported.

### **License 119 — KIA/Hyundai Delphi MT38/MT86 DCM3.7P CAN/KLine BENCH/OBDII**

1) Delphi MT38/MT86/DCM3.7P OBDII Mode (working on car or desktop, the tab is for car tuning chip):

- Reading Identification
- Error Reading
- Error Reset
- Flash reading
- Flash recording with recalculation of checksums of the calibration area

2) Delphi MT38 / MT86 BSL Mode (working on the bench, recovery mode, allows you to restore the ECU that does not respond):

- Flash reading
- Flash writing

Stable Internet connection is required.

Not all software versions may be supported.

### **License 120 — Bosch ALL SRS External EEPROM 95xxx OBDII**

Allows working via OBDII connector or on the table with SRS Bosch units based on MK + EEPROM 95080/95128/95160/95320/95640 installed on cars: Ford, Mazda, Land Rover, Hyundai, Kia, MB, Dodge, Mitsubishi, Nissan, Volvo, Subaru, which allows for full-fledged repair and restoration work with ECU data.

Functions:

- Identification
- Reading Errors
- Erase errors
- EEPROM Reading
- EEPROM Writing

The **Scanmatik** adapter is recommended. Stable internet connection is required. Not all software versions may be supported.

### **License 123 — PSA SRS CAN BENCH/OBDII**

Allows working via the OBDII connector or on the bench with SRS Autoliv ECUs based on MK Renesas V850 70F3624, SRS Continental based on MK SPC560xxx, SRS Autoliv with an external EEPROM 95320 chip installed on PSA concern cars, which allows full repairing and restoration work with ECU data.

Functions:

- Identification
- Reading Errors
- Erasing errors
- Clearing collision information via CAN

Requires a **Scanmatik 2 PRO** adapter to work

Not all software versions may be supported.

### **License 124 - Delphi DCM6.2A/V/AP SPC5674 BSL**

1) Delphi DCM6.2A, Delphi DCM6.2V, Delphi DCM6.2A/P BSL Mode(bench work with opening the ECU, for chip tuning, cloning, recovery):

- service mode activation;
- service mode exit;

- FLASH reading;
- FLASH writing;
- Shadow Flash reading;
- checksum correction on/off

2) BENCH password reading (bench work without opening the ECU):

- VAG DCM6.2V password reading

Constant Internet connection is required.

Not all software versions may be supported.

### **License 125 — Lada Vesta NG DASH BENCH/OBDII**

License 125 works with dashboards on ARM Cortex M4(FS32K142) MC installed on Lada Vesta NG cars from 2022.

- Reading/Writing Km
- Reading/Writing PFLASH (programme and calibration area)
- Reading DFLASH
- Configuration Reading/Writing

A permanent internet connection is required for operation.

Not all software versions may be supported.

### **License 126 — SsangYong SRS CAN SPC56x BENCH/OBDII**

Working via OBDII connector or on the bench with SRS Continental blocks based on MC SPC560xxx installed on SsangYong cars, which allows you to make full repair and recovery work with these ECUs.

Functions:

- Identification
- Error reading
- Erasing errors
- Clearing collision information via CAN

Scanmatik adapter is recommended

Permanent internet connection is required for operation.

Not all software versions may be supported.

### **License 127 — Suzuki SRS CAN SPC56x BENCH/OBDII**

Working via OBDII connector or on the table with SRS Continental blocks based on MC SPC560xxx installed on Suzuki cars, which allows you to make full repair and restoration work with these ECUs.

Functions:

- Identification

- Error reading
- Erasing errors
- Clearing of collision information via CAN

Scanmatik adapter is recommended.

Permanent internet connection is required for operation.

Not all software versions may be supported.

### **License 128 — Chery Continental SRS R7F701009 BENCH/OBDII**

Allows working via the OBDII connector or on the bench with SRS Continental units based on the Renesas RH850 R7F701009 MK installed on Chery cars, which allows for full-fledged repair and restoration work with ECU data.

Functions:

- Identification
- Reading Errors
- Erase errors
- Clearing collision information via CAN

The **Scanmatik** adapter is recommended. Stable internet connection is required.

Not all software versions may be supported.

### **License 129 — Toyota TRW SRS Tricore Aurix TC234L-32F BENCH/OBDII**

Allows working via the OBDII connector or on the bench with SRS TRW units based on the Tricore Aurix TC234L-32F MK installed on Toyota cars, which allows for full repair and restoration work with ECU data.

Functions:

- Identification
- Reading Errors
- Erase errors
- Clearing collision information via CAN

The **Scanmatik** adapter is recommended. Stable internet connection is required.

Not all software versions may be supported.

### **License 130 — Hyundai/Kia TriCore Aurix TC2xx SRS BENCH/OBDII**

Allows working via the OBDII connector or on the bench with SRS based on Tricore Aurix TC2xx installed on Hyundai/Kia cars, which allows for full repair and restoration work with ECU data.

Functions:

- Identification
- Reading Errors

- Erase errors
- Clearing collision information via CAN

The **Scanmatik** adapter is recommended. Stable internet connection is required. Not all software versions may be supported.

### **License 132 — VAG VDO Continental MQBAB 2012–2019 DASH IMMODATA OBDII**

Allows working via OBD II connector with the Continental VDO MQBAB dashboard based on the NEC35xx MK installed on cars: Audi, Skoda, Seat, VW, which allows for full-fledged repair and restoration work with ECU data.

Functions:

- Identification
- Service mode
- Reading ImmoData.
- ImmoData entry

Work is supported ONLY with VDO Continental dashboards on the MQBAB platform released from ~ 2012 - 2019!

Johnson Controls dashboards are NOT SUPPORTED!!!

2017+ Full LCD(Virtual Cockpit) dashboards are NOT SUPPORTED!!!

The **Scanmatik** adapter is recommended. Stable internet connection is required. Not all software versions may be supported.

### **License 134 — VAZ Mikas M74.8/M74.9 BENCH/OBDII**

Allows working via the OBDII connector or when directly connected via CAN bus with ITELMA M74.8/M74.9 control units on the STM SPC58VQ and Artery MCUs of the AT32F4xx series of gasoline engines installed on VAZ vehicles , which allows you to carry out full-fledged repair and restoration work with ECU data.

Functions:

- Reading identification
- Reading errors
- Reset errors
- Read Full Flash / Read control program and calibration area
- Write control program and calibration area / check all CS and recalculate CS of calibration area
- Read/Write EEPROM
- Reset function, ECU learning
- Recorder activation function
- Function record VIN number (only for new ECUs)
- Recorder data editing function

The Scanmatik 2 Pro adapter is recommended.  
To work, you need a constant connection to the Internet.  
Not all software versions may be supported.

## **Accessories for MD Flasher (2)**

### **Adapter FTDI2232 UART ver.3.0**Item no.:40M2/01

Universal adapter for working with microcontrollers via UART, MBUS.

The board has the following outputs: DTR, DTS, DT2,TX, RX, VCC (the adapter allows you to supply this output with any voltage up to 36 volts applied to the DC 2 mm input), GND, 3.3V (voltage from the USB port through the stabilizer) , 5V (voltage from the USB port), MBUS (switched on by a jumper on the board). Jumper to switch MBUS mode. The Reset button is used to reset the FTDI2232H microcontroller to its original state.

Currently supported with:

1. License 22 Cypress/Fujitsu/Spansion MB91F0xx/S6J3xx MCU UART
2. License 48 Cypress/Fujitsu/Spansion 96Fxx MCU UART
3. License 55 Renesas RH850 R7F701xxx MCU UART
4. License 59 - MCU Renesas V850

### **Female to Female Connectors for UART**Item no.:40M2/02

Female to Female Connectors for FTDI2232 UART Adapter ver. 3.0. Length 40 cm.