

MANUAL

BGauge Race Dash 7inch



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VGauge Race Dash 7inch е универсално състезателно табло, предназначено за работа по CAN с различни ECU системи, включително MaxxECU, ECUMaster, Megasquirt, Link и други .

Устройството разполага с :

- Обновяване на стойностите до **50 Hz** за бърза и точна визуализация .
- Вграден **20 Hz GPS** модул за точно отчитане на скорост и позиция .
- Лесно конфигуриране според нуждите на потребителя .
- Програмируем **CAN** бутон за индивидуални функции .
- Програмируеми **shift** лампи с регулируема яркост .
- Програмируема **overboost** лампа .
- Сигнализация за зареждане на акумулатора .
- Сигнализация за налягане на маслото .
- Резистивен тъч скрийн , който позволява работа и с ръкавици .
- Програмируема яркост на диодите за работа при различни условия .



Внимание

Важно предупреждение за безопасност .

Всички дейности по свързване и монтаж на таблото трябва да се извършват при откачен акумулатор .

Работа по електрическата система с включено захранване може да доведе до повреда на устройството , ECU или електроинсталацията на автомобила .

Всички клеми , допълнителни маси и връзки трябва да бъдат добре затегнати , за да се избегнат смущения и нестабилност в електрическата система .

Препоръчва се монтажът да се извършва от квалифициран техник .

Винаги използвайте предпазители с подходяща стойност и следвайте инструкциите за свързване .

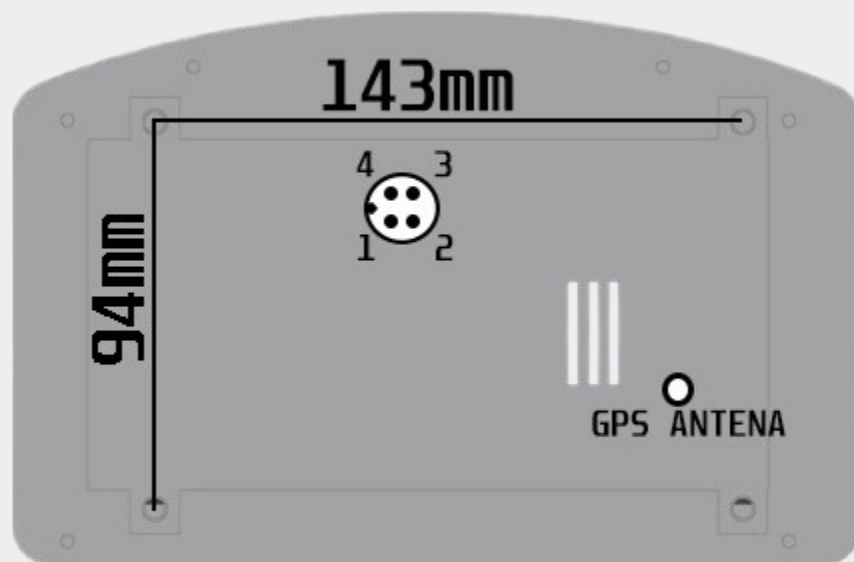
2.1 Пинаут

Таблото използва GX16 конектор със следния пинаут :

- Пин 1 (зелен): +12V захранване
- Пин 2 (жълт): CAN Low
- Пин 3 (бял): CAN High
- Пин 4 (кафяв): Маса (GND)

Захранване:

- Работен диапазон : 7V – 35V
- Препоръчително е използването на предпазител 5A на захранващата линия



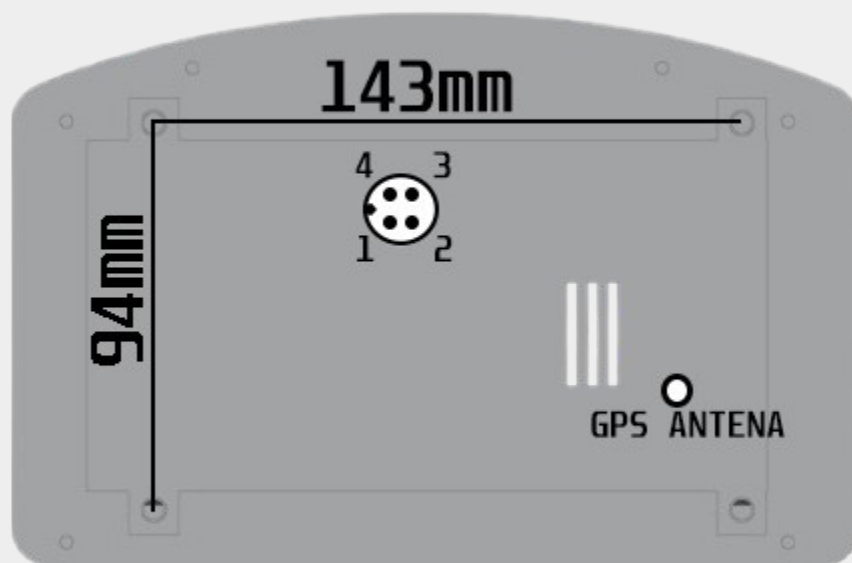
2.2 GPS антена

GPS антената се свързва към таблото чрез завиване на конектора .

Уверете се , че антената има ясен изглед към небето на избраната позиция .

Липсата на директна видимост може да доведе до :

- липса на GPS връзка
- неточни или променливи GPS показания
- други нежелани резултати



3 Технически данни

Механични данни

- **Размери: В : 135 мм Д: 205 мм Ш: 42 мм**
- **Тегло: 950гр**
- **Работна температура : -20 °C до +70 °C**
- **7" цветен тъч дисплей 800 × 480 рх**

ГПС антена

- **Тегло: 70гр**
- **Дължина: 3м**

Конектор

- **Тип: GX16**
Брой пинове : 4

Кабел

- **Кабел за комуникация за управление на данни ,
4x0.34mm², меден, сив, LIYY**

4 Данни по CAN

VGauge Race Dash 7inch чете и визуализира следните параметри от ECU и автомобилните сензори :

- Оборотомер (RPM)
- MAP сензор (Manifold Absolute Pressure)
- AFR (Air-Fuel Ratio / съотношение въздух гориво)
- Входяща температура на въздуха (IAT)
- Температура на охлаждащата течност (CLT)
- Температура на маслото (OIL TEMP)
- Инжекторно време (Injector Pulse Width)
- Аванс (Ignition Timing Advance)
- EGT (Exhaust Gas Temperature / температура на изгорелите газове)
- TPS (Throttle Position Sensor / ъгъл на дросела)
- Налягане на маслото (Oil Pressure)
- Налягане на горивото (Fuel Pressure)
- Волтаж (Battery Voltage / System Voltage)
- Flex Fuel сензор (Ethanol Content / % етанол)
- Предавка (Gear)
- GPS сигнал или скорост от автомобила (конфигурира се през дисплея)

Настройки

5.1 Табло

Влизане в менюто за конфигурация

1. Натиснете бутона **Settings** на таблото .
2. Веднага след това ще се отвори екранът за конфигурация , където могат да се правят следните настройки :
 - Избор на ECU протокол (MaxxECU, ECUMaster, Megasquirt, Link и др .)
 - Настройка на CAN скорост (baud rate)
 - Активиране или деактивиране на GPS или автомобилна скорост
 - Програмируеми shift лампи и други аларми
 - Настройка на яркост на дисплея и LED индикаторите
3. Всички промени се запазват автоматично след излизане от менюто .



Skins **Settings** SAVE


Brightness 91%

Shift Lamps - 4700 RPM +

Boost Lamp - 0.30 bar +

Can-bus button OFF Speed VSS ^

ECU MS3 ^ Can-bus speed 500K ^


Skins	Settings		SAVE
Brightness		91	%
Shift	-	4700	RPM +
Boost	-	0.30	bar +
Can-bus	OFF	Speed	VSS ^
ECU	MS3 ^	Can-bus speed	500K ^

MS3

MaxxECU

EMU

Link

Skins	Settings		SAVE
Brightness		91	%
Shift Lamps	-	4700	RPM +
Boost Lamp	-	0.30	bar +
Can-bus button	OFF	Speed	VSS ^
ECU	MS3 ^	Can-bus speed	500K ^

GPS

VSS

Опция „Skins“

Опцията Skins позволява персонализиране на визуалния вид на дисплея . Чрез нея можете :

1. Избор на скин

- **Влизайки в менюто „Skins“ , се показва списък с наличните дизайни за дисплея .**
- **Изберете желания скин чрез натискане на екрана или бутоните за навигация .**
- **След избор , дисплеят автоматично се обновява с новия визуален стил .**

2. Достъп до страницата „Info“

- **От менюто „Skins“ има възможност за навигация към Info страницата .**

Забележка: Изборът на скин не влияе на функционалността на дисплея или синхронизацията с ECU, само на визуалния стил .

•

INFO



Back

charging lamp

Oil pressure lamp

High Boost lamp

Can-Bus button: ID:101(hex 65) | (Byte[0]) 8-bit value 0/1
MS3 stream base ID (decimal) :1520
EMU stream base ID (hex) :600
MaxxECU default CAN output protocol
GPS Speed - CAN ID : 0X663 (1635), byte 0 , 16b Uns Big endian

version 1.1

Страница „Info“

На страницата Info се показва основна информация за текущата конфигурация на таблото :

- **CAN комуникация**
 - **Информация за текущия ECU протокол ,**
- **Адрес на CAN бутон**
 - **Показва програмируемия адрес на бутоната , който може да се използва за персонализирани функции .**
- **Адрес на GPS сигнал**
 - **Показва на кой адрес таблото изпраща GPS данните към ECU .**
- **Това позволява ECU-то да получава информация за скорост и позиция в реално време**

Забележка : Страницата „Info“ е само за справка и не позволява промяна на параметрите .

5.1 ECUMaster

Конфигуриране с **ECU Master Classic**

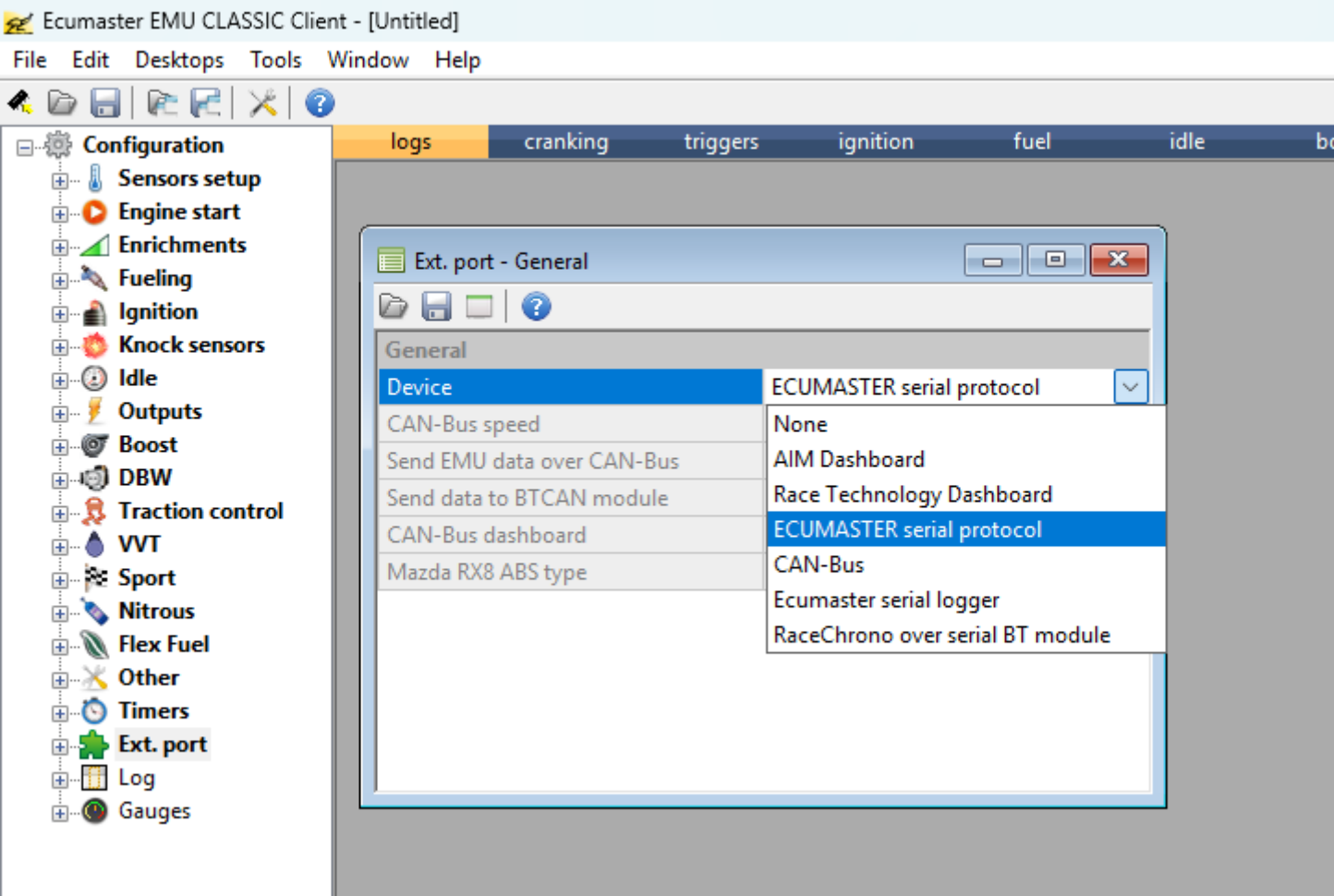
Таблото **BGauge Race Dash** може да получава данни от **ECU Master Classic** по два различни начина.

A Вариант 1 – с **BGauge CAN** модул

Този вариант е напълно **plug-and-play** – модулът идва с готови букси, които се включват директно между **ECU Master Classic** и таблото. Не се изисква рязане на кабели, преходници или допълнителни настройки.



Настройка в EMU Classic:



В Вариант 2 – с оригинален ECU Master CAN модул

Ако вече имате инсталиран оригинален CAN модул на ECU Master, таблото може да бъде свързано директно към CAN шината.

Настройка на EMU Classic CAN модул

The screenshot shows the Ecumaster EMU CLASSIC Client software interface. The main window has a menu bar (File, Edit, Desktops, Tools, Window, Help) and a toolbar. A left sidebar contains a 'Configuration' tree with various modules. The main area shows a dashboard with tabs for 'logs', 'cranking', 'triggers', 'ignition', 'fuel', and 'idle'. A 'Ext. port - General' dialog box is open, displaying the following configuration:

General	
Device	CAN-Bus
CAN-Bus speed	500 Kbps
Send EMU data over CAN-Bus	<input checked="" type="checkbox"/>
Send data to BTCAN module	<input type="checkbox"/>
CAN-Bus dashboard	None
Mazda RX8 ABS type	Model 03

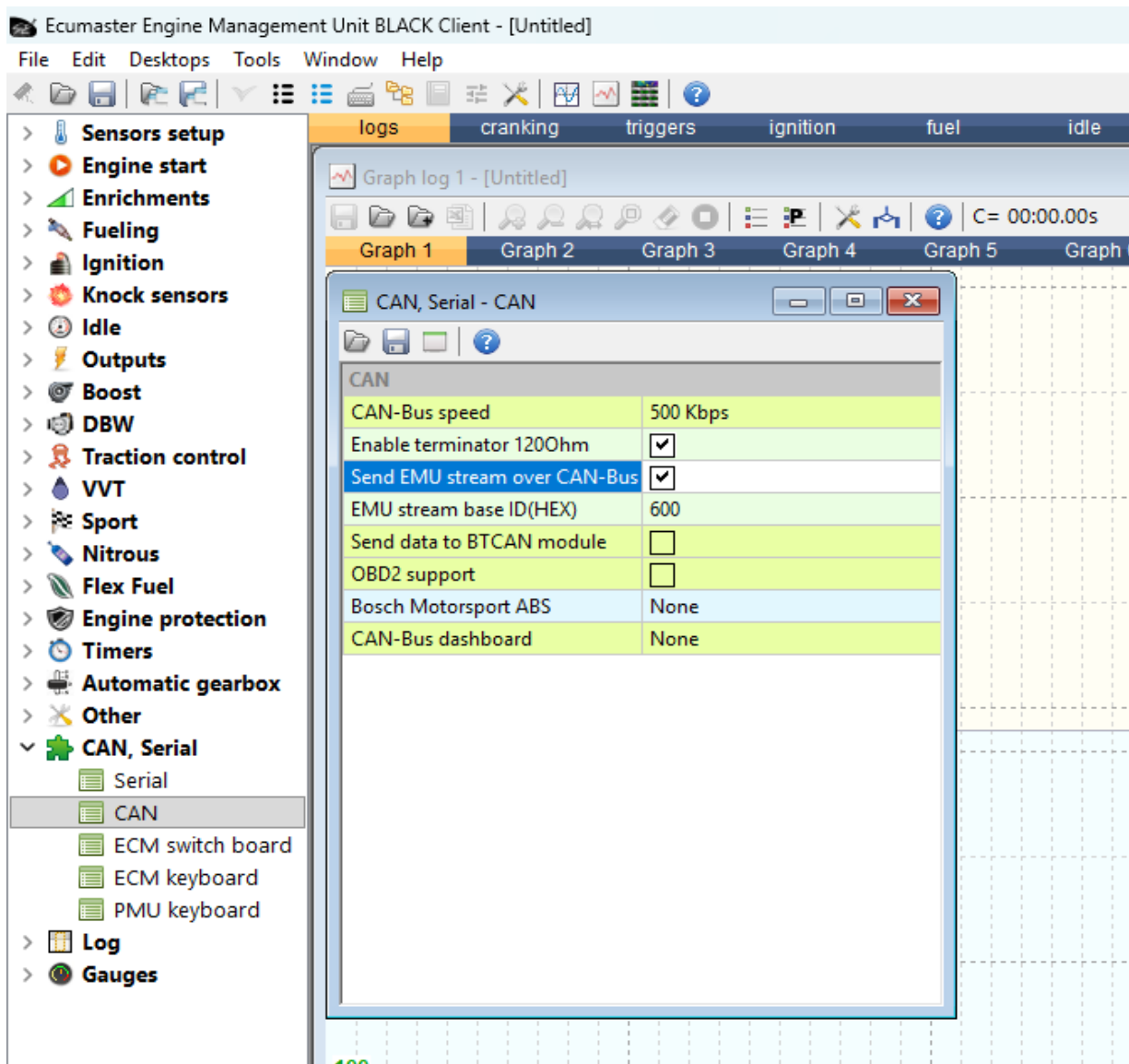
Конфигуриране с ECU Master Black

VGauge Race Dash поддържа пълна двупосочна **CAN** комуникация с **ECU Master Black**, което позволява:

* Получаване на данни от **ECU** (RPM, MAP, TPS, температура, AFR, напрежение и др.)

* Изпращане на **CAN** бутони от таблото към **ECU** (например Launch, Pit Limit, Boost Select)

Изпращане на **GPS** скорост от таблото обратно към **ECU**.



Изпращане на GPS скорост от таблото към EMU Black

The screenshot displays the Ecumaster Engine Management Unit BLACK Client interface. The main window shows a 'Sensors setup' dialog box for 'VSS and Gearbox Parameters'. The 'Speed source' is set to 'ECUMASTER Wheel speed to CAN (id 0x663)'. The 'Gear detection type' is 'Calculated'. The 'Gear sensor input' is set to 'None'. The 'Ratio tolerance' is 5% and the 'Gear delay' is 0.1 s. The 'Gear 1 ratio' through 'Gear 6 ratio' are all set to 1. The 'Front left FL', 'Front right FR', 'Rear left RL', and 'Rear right RR' are all set to 'Sensor input S1' through 'S4' respectively. The 'Speed ratio' is set to 1. The 'Gear sensor input' is set to 'None'.

VSS	
Gear detection type	Calculated
Speed source	ECUMASTER Wheel speed to CAN (id 0x663)
Front left FL	Sensor input S1
Front right FR	Sensor input S2
Rear left RL	Sensor input S3
Rear right RR	Sensor input S4
Speed ratio	1
Gear 1 ratio	1
Gear 2 ratio	1
Gear 3 ratio	1
Gear 4 ratio	1
Gear 5 ratio	1
Gear 6 ratio	1
Ratio tolerance	5 %
Gear delay	0.1 s
Gear sensor input	None

A Вариант 1 – Дефолтна CAN комуникация (Default Stream)

Таблото VGauge Race Dash поддържа пълна CAN комуникация с всички модели MaxxECU.

Данните могат да се предават по дефолтния CAN стрийм на MaxxECU или чрез къстъм CAN конфигурация, което позволява по-висока скорост и повече параметри.

The screenshot displays the MaxxECU MTune software interface, version 1.156, which is currently disconnected. The interface is divided into several sections:

- Left Panel:** A navigation tree with categories like Configuration, Limits, Fuel, Ignition, Motorsport, Speed/Gear, CAN Bus, Advanced, Inputs, Outputs, Diagnostics, and Tuning. The 'CAN settings' option is highlighted.
- Top Bar:** Shows 'OFFLINE' status and 'MaxxECU modules'.
- MaxxECU modules:** A list of modules with dropdown menus, all currently set to 'Not installed'. Modules include Input module, PWM module, PWM module id=2, PWM module id=3, PWM module id=4, MaxxECU PDM20, Keypad, MaxxECU WBO Modules, 8 Output Module, E-Throttle module, and Traction module.
- Data transmission:** Settings for CAN communication, including 'Default CAN output protocol' (MaxxECU Default v1.3), 'CAN ID Offset' (0), and 'Message rate' (Default (10/50Hz)). Below this is a table for 12 user channels, each with a 'TPS input voltage' label and an empty input field.
- OBD-2:** 'CAN OBD-II' is set to 'Disabled'.
- Piggyback OEM CAN Protocols (development):** 'Piggyback OEM CAN Protocols' is set to 'Disabled'.
- OEM CAN Protocols:** 'OEM CAN protocol' is set to 'Disabled'.
- CAN Powertrain controls:** 'Powertrain control' is set to 'Disabled'.
- CAN Peripheral controls:** 'Peripheral control' is set to 'Disabled'.
- CAN Shifter Protocols:** 'CAN shifter Protocol' is set to 'Disabled'.
- CAN Bus Settings:** 'CAN 1 Btrate' is set to '500Kbit (default)'.
- Bottom Panel:** A 'Logger' window showing 'No data' and a 'Live' button.

B Вариант 2 – Къстъм CAN комуникация (Custom Stream)

*За по-висока честота на обновяване се препоръчва използването на Custom CAN stream.

MaxxECU MTune 1.156 DISCONNECTED

The screenshot displays the MaxxECU MTune software interface. The top status bar shows 'OFFLINE'. The left sidebar contains a navigation tree with categories like 'Configuration', 'Limits', 'Fuel', 'Ignition', 'Motorsport', 'Speed/Gear', 'CAN Bus', 'Advanced', 'Inputs', 'Outputs', and 'Diagnostics'. The 'CAN Bus' category is expanded, and 'CAN settings' is selected. The main panel is titled 'CAN settings' and is divided into two sections: 'MaxxECU modules' and 'Data transmission'. The 'MaxxECU modules' section lists various modules with their installation status and a dropdown menu for selection. The 'Data transmission' section shows the 'Default CAN output protocol' set to 'Disabled'.

Module Name	Status	Notes
Input module	Not installed	
PWM module	Not installed	
PWM module id=2	Not installed	
PWM module id=3	Not installed	
PWM module id=4	Not installed	
MaxxECU PDM20	Not installed	
Keypad	Not installed	
MaxxECU WBO Modules	Not installed	
8 Output Module	Not installed	(discontinued module)
E-Throttle module	Not installed	(discontinued module)
Traction module	Not installed	(discontinued module)

Data transmission

Setting	Value
Default CAN output protocol	Disabled



OFFLINE

ECU Tuning Shortcuts

- Start
- [-] Configuration
- [-] Limits
- [-] Fuel
- [-] Ignition
- Idle control
- Boost control
- [-] Motorsport
- [-] Speed/Gear
- [-] CAN Bus
 - ... CAN settings
 - ... CAN OBD2 input
 - [-] CAN Tools
 - [-] CAN Inputs
 - [-] CAN Outputs
 - CAN Output 1 (RPM ...)**
 - CAN Output 2
 - CAN Output 3
 - CAN Output 4
 - CAN Output 5
 - CAN Output 6
 - CAN Output 7
 - CAN Output 8
 - CAN Output 9
 - CAN Output 10
- [-] Advanced
- [-] Inputs
- [-] Outputs
- [-] Diagnostics
- [-] Tuning

CAN Output 1

CAN output Value 1

Enable	?	Enable	▼
Description		RPM ...	
CAN Bus	?	CAN 1	▼
CAN Message ID Type	?	Standard	▼
CAN Message ID	?	0x520	
Endian	?	Little endian	▼
Values in this package	?	4	▼
Message rate	?	20Hz	▼

Data value 1

Type	?	Variable - signed 16 bit	▼
Variable	?	RPM	<input type="checkbox"/>
Offset	?	0	Output = (Indata*Multiplier/Divider) + Offset
Multiplier	?	1	
Divider	?	1	

Data value 2

Type		Variable - signed 16 bit	▼
Variable		Throttle position	<input type="checkbox"/>
Offset		0	Output = (Indata*Multiplier/Divider) + Offset
Multiplier		1	
Divider		1	

Data value 3

Type		Variable - signed 16 bit	▼
Variable		MAP	<input type="checkbox"/>
Offset		0	Output = (Indata*Multiplier/Divider) + Offset
Multiplier		1	
Divider		1	

Data value 4

Type		Variable - signed 16 bit	▼
Variable		Lambda	<input type="checkbox"/>
Offset		0	Output = (Indata*Multiplier/Divider) + Offset
Multiplier		1	
Divider		1	

OFFLINE

ECU Tuning Shortcuts

- Start
- Configuration
- Limits
- Fuel
- Ignition
 - Idle control
 - Boost control
- Motorsport
- Speed/Gear
- CAN Bus
 - CAN settings
 - CAN OBD2 input
 - CAN Tools
 - CAN Inputs
 - CAN Outputs
 - CAN Output 1 (RPM ...)
 - CAN Output 2 (INJ)**
 - CAN Output 3
 - CAN Output 4
 - CAN Output 5
 - CAN Output 6
 - CAN Output 7
 - CAN Output 8
 - CAN Output 9
 - CAN Output 10
- Advanced
- Inputs
- Outputs
- Diagnostics
- Tuning

CAN Output 2

CAN output Value 2

Enable	Enable
Description	INJ
CAN Bus	CAN 1
CAN Message ID Type	Standard
CAN Message ID	0x522
Endian	Little endian
Values in this package	1
Message rate	10Hz

Data value 1

Type	Variable - signed 16 bit
Variable	Fuel pulse primary <input type="checkbox"/>
Offset	0
Multiplier	1
Divider	1

Output = (Indata * Multiplier / Divider) + Offset



OFFLINE

CAN Output 3

CAN output Value 3

Enable	<input type="text" value="Enable"/>
Description	<input type="text" value="IGN .."/>
CAN Bus	<input type="text" value="CAN 1"/>
CAN Message ID Type	<input type="text" value="Standard"/>
CAN Message ID	<input type="text" value="0x521"/>
Endian	<input type="text" value="Little endian"/>
Values in this package	<input type="text" value="4"/>
Message rate	<input type="text" value="10Hz"/>

Data value 1

Type	<input type="text" value="Variable - signed 8 bit"/>
Variable	<input type="text" value="External Lambda status 1"/> <input type="checkbox"/>
Offset	<input type="text" value="0"/> Output = (Indata*Multiplier/Divider) + Offset
Multiplier	<input type="text" value="1"/>
Divider	<input type="text" value="1"/>

Data value 2

Type	<input type="text" value="Variable - signed 8 bit"/>
Variable	<input type="text" value="External Lambda status 2"/> <input type="checkbox"/>
Offset	<input type="text" value="0"/> Output = (Indata*Multiplier/Divider) + Offset
Multiplier	<input type="text" value="1"/>
Divider	<input type="text" value="1"/>

Data value 3

Type	<input type="text" value="Variable - signed 16 bit"/>
Variable	<input type="text" value="Ignition angle"/> <input type="checkbox"/>
Offset	<input type="text" value="0"/> Output = (Indata*Multiplier/Divider) + Offset
Multiplier	<input type="text" value="1"/>
Divider	<input type="text" value="1"/>

Data value 4

Type	<input type="text" value="Variable - signed 16 bit"/>
Variable	<input type="text" value="Ignition cut"/> <input type="checkbox"/>
Offset	<input type="text" value="0"/> Output = (Indata*Multiplier/Divider) + Offset
Multiplier	<input type="text" value="1"/>
Divider	<input type="text" value="1"/>

ECU Tuning Shortcuts

- Start
- Configuration
- Limits
- Fuel
- Ignition
- Idle control
- Boost control
- Motorsport
- Speed/Gear
- CAN Bus
 - CAN settings
 - CAN OBD2 input
 - CAN Tools
 - CAN Inputs
 - CAN Outputs
 - CAN Output 1 (RPM ...)
 - CAN Output 2 (INJ)
 - CAN Output 3 (IGN ..)
 - CAN Output 4
 - CAN Output 5
 - CAN Output 6
 - CAN Output 7
 - CAN Output 8
 - CAN Output 9
 - CAN Output 10
- Advanced
- Inputs
- Outputs
- Diagnostics
- Tuning



OFFLINE

ECU Tuning Shortcuts

- Start
- Configuration
- Limits
- Fuel
- Ignition
- Idle control
- Boost control
- Motorsport
- Speed/Gear
- CAN Bus
 - CAN settings
 - CAN OBD2 input
 - CAN Tools
 - CAN Inputs
 - CAN Outputs
 - CAN Output 1 (RPM ...)
 - CAN Output 2 (INJ)
 - CAN Output 3 (IGN ..)
 - CAN Output 4 (Battery ...)**
 - CAN Output 5
 - CAN Output 6
 - CAN Output 7
 - CAN Output 8
 - CAN Output 9
 - CAN Output 10
- Advanced
- Inputs
- Outputs
- Diagnostics
- Tuning

CAN Output 4

CAN output Value 4

Enable	Enable
Description	Battery ...
CAN Bus	CAN 1
CAN Message ID Type	Standard
CAN Message ID	0x530
Endian	Little endian
Values in this package	4
Message rate	10Hz

Data value 1

Type	Variable - signed 16 bit	
Variable	Battery voltage	
Offset	0	Output = (Indata * Multiplier / Divider) + Offset
Multiplier	1	
Divider	1	

Data value 2

Type	Variable - signed 16 bit	
Variable	Baro pressure	
Offset	0	Output = (Indata * Multiplier / Divider) + Offset
Multiplier	1	
Divider	1	

Data value 3

Type	Variable - signed 16 bit	
Variable	Intake air temp	
Offset	0	Output = (Indata * Multiplier / Divider) + Offset
Multiplier	1	
Divider	1	

Data value 4

Type	Variable - signed 16 bit	
Variable	Coolant temp	
Offset	0	Output = (Indata * Multiplier / Divider) + Offset
Multiplier	1	
Divider	1	



OFFLINE

ECU Tuning Shortcuts

- Start
- Configuration
- Limits
- Fuel
- Ignition
- Idle control
- Boost control
- Motorsport
- Speed/Gear
- CAN Bus
 - CAN settings
 - CAN OBD2 input
 - CAN Tools
 - CAN Inputs
 - CAN Outputs
 - CAN Output 1 (RPM ...)
 - CAN Output 2 (INJ)
 - CAN Output 3 (IGN ..)
 - CAN Output 4 (Battery ...)
 - CAN Output 5 (Oil pres..)
 - CAN Output 6
 - CAN Output 7
 - CAN Output 8
 - CAN Output 9
 - CAN Output 10
- Advanced
- Inputs
 - Trigger/Home inputs (F11)
 - Sensors (CLT,IAT,TPS)
 - Lambda sensor
 - Digital Inputs
 - Analog Inputs
 - AIN 1 (temp)
 - AIN 2 (temp)
 - AIN 3 (0-5V) (Oil Pressure)
 - AIN 4 (0-5V)
 - AIN 5 (0-5V)
 - AIN 6 (0-5V)
 - AIN 7 (0-5V)
 - AIN 8 (0-5V)
- Outputs
- Diagnostics
- Tuning

CAN Output 5 (Oil pres..)

CAN output Value 5

Enable	Enable	▼
Description	Oil pres..	
CAN Bus	CAN 1	▼
CAN Message ID Type	Standard	▼
CAN Message ID	0x536	
Endian	Little endian	▼
Values in this package	4	▼
Message rate	10Hz	

Data value 1

Type	Variable - signed 16 bit	
Variable	VSS Gear	<input type="checkbox"/>
Offset	0	Output = (Indata*Multiplier/Divider) + Offset
Multiplier	1	
Divider	1	

Data value 2

Type	Variable - signed 16 bit	
Variable	Boost solenoid duty	<input type="checkbox"/>
Offset	0	Output = (Indata*Multiplier/Divider) + Offset
Multiplier	1	
Divider	1	

Data value 3

Type	Variable - signed 16 bit	
Variable	Engine Oil Pressure	<input type="checkbox"/>
Offset	0	Output = (Indata*Multiplier/Divider) + Offset
Multiplier	1	
Divider	1	

Data value 4

Type	Variable - signed 16 bit	
Variable	Engine Oil Temp	<input type="checkbox"/>
Offset	0	Output = (Indata*Multiplier/Divider) + Offset
Multiplier	1	
Divider	1	



OFFLINE

CAN Output 6 (Fuel Pres..)

ECU Tuning Shortcuts

- Start
- Configuration
- Limits
- Fuel
- Ignition
- Idle control
- Boost control
- Motorsport
- Speed/Gear
- CAN Bus
 - CAN settings
 - CAN OBD2 input
 - CAN Tools
 - CAN Inputs
 - CAN Outputs
 - CAN Output 1 (RPM ...)
 - CAN Output 2 (INJ)
 - CAN Output 3 (IGN ..)
 - CAN Output 4 (Battery ...)
 - CAN Output 5 (Oil pres..)
 - CAN Output 6 (Fuel Pres..)**
 - CAN Output 7
 - CAN Output 8
 - CAN Output 9
 - CAN Output 10
- Advanced
- Inputs
 - Trigger/Home inputs (F11)
 - Sensors (CLT,IAT,TPS)
 - Lambda sensor
 - Digital Inputs
 - Analog Inputs
 - AIN 1 (temp)
 - AIN 2 (temp)
 - AIN 3 (0-5V) (Oil Pressure)
 - AIN 4 (0-5V) (Fuel pressure)
 - AIN 5 (0-5V)
 - AIN 6 (0-5V)
 - AIN 7 (0-5V)
 - AIN 8 (0-5V)
- Outputs
- Diagnostics
- Tuning

CAN output Value 6

Enable	Enable	▼
Description	Fuel Pres..	
CAN Bus	CAN 1	▼
CAN Message ID Type	Standard	▼
CAN Message ID	0x537	
Endian	Little endian	▼
Values in this package	1	▼
Message rate	10Hz	

Data value 1

Type	Variable - signed 16 bit		▼
Variable	Primary fuel pressure	<input type="checkbox"/>	
Offset	0		Output = (Indata * Multiplier / Divider) + Offset
Multiplier	1		
Divider	1		

Конфигуриране с MegaSquirt 3 (MS3 / MS3Pro)

Таблото **BGauge Race Dash** е напълно съвместимо с **MegaSquirt 3** и всички нейни варианти (**MS3, MS3X, MS3Pro EVO / Ultimate**).

The screenshot displays the MegaSquirt 3 software interface. At the top, there are navigation tabs: "Table choices", "Advanced Engine", "3D Tuning Maps", and "CAN-bus/ Testmodes". The "CAN Parameters" window is open, showing various configuration options. Below the window, a menu is open under "CAN-bus/ Testmodes", listing numerous options including CAN Parameters, CAN Broadcasting, CAN Realtime Data Broadcasting, CAN Receiving, CAN VSS, Gear, CAN EGO, GPS, Real Time Clock, IO-Box Settings, Dash Broadcasting, Check Engine Light, Limp Mode, Fallback MAP Table, Output Test Mode (Inj/Spk, I/O, I/O 2, I/O 3, CAN I/O, Idle Valve), Injector Sequential Testing, Inj/Spk Disabling Test Mode, Engine Control, Special Options, Long Term Trim Settings, Long Term Trim Table 1, Throttle control (DBW), and Throttle Test Mode.

CAN Parameters

My CAN ID: 0

Master Enable: On

29bit Megasquirt CAN Enable: On

CAN baud rate (caution!): 500k

Enable PWM Polling: Disable

Remote CAN Id: 5

Remote Table Number For PWM Data: 7

Remote Table Offset For PWM Data(bytes): 58

Remote Clock(MHz): 24

Remote Prescale: 16

Remote Divider: 3

Enable ADC Polling: Disable

Digital ports

Remote CAN Id: 5

Table: 7

Enable Input Port: Disable

Offset(bytes): 77

Enable Output Port: Disable

Offset(bytes): 75

Enable PWM Outputs: Disable

Remote CAN Id: 5

Table: 7

Offset(bytes): 94

Force Duty To 0-255: Disable

CAN ADC selection

CAN ADC group on/off	CAN Id	Table	Offset
CAN ADC 1-4	5	7	2
CAN ADC 5-8	5	7	10
CAN ADC 9-12	5	7	18
CAN ADC 13-16	5	7	26
CAN ADC 17-20	5	7	34
CAN ADC 21-24	5	7	42

Advanced Engine 3D Tuning Maps CAN-bus/ Testmodes

CAN Realtime Data Broadcasting

View Help

CAN Realtime Data Broadcasting

Enable realtime data broadcasting over CAN	On
Base message identifier (decimal)	1520
00: Seconds,PW1,PW2,RPM	20Hz
01: Advance,Squirt,Engine,AFRtgt1,2,WBen1,2	10Hz
02: Baro,MAP,MAT,CLT	20Hz
03: TPS,Batt,EGO1,2	10Hz
04: Knock,egocor1,2,aircor	Off
05: warmcor,tpsaccel,tpsfuelcut,barocor	Off
06: totalcor,ve1,ve2,iacstep	Off
07: cold_adv,TPSdot,MAPdot,RPMdot	Off
08: MAFload,fuelload,fuelcor,MAF	Off
09: egoV1,2,dwell,dwell_trl	Off
10: status1,2,3,4,5,6,7	Off
11: fuelload2,ignload1,2,airtemp	Off
12: wallfuel1,2	Off
13: sensors1,2,3,4	10Hz
14: sensors5,6,7,8	Off
15: sensors9,10,11,12	Off

Burn Close

- CAN Parameters
- CAN Broadcasting
- CAN Broadcast Testing
- CAN Realtime Data Broadcasting**
- CAN Realtime Data Broadcasting 2
- CAN Realtime Data Broadcasting 3
- CAN Realtime Data Broadcasting 4
- CAN Receiving
- CAN VSS, Gear
- CAN EGO, GPS
- Real Time Clock
- IO-Box Settings
- Dash Broadcasting
- Check Engine Light
- Limp Mode
- Fallback MAP Table
- Output Test Mode - Inj/Spk
- Output Test Mode - I/O
- Output Test Mode - I/O 2
- Output Test Mode - I/O 3
- Output Test Mode - CAN I/O
- Output Test Mode - Idle Valve
- Injector Sequential Testing
- Inj/Spk Disabling Test Mode
- Engine Control
- Special Options
- Long Term Trim Settings
- Long Term Trim Table 1
- Throttle control (DBW)
- Throttle Test Mode

Three windows titled "CAN Realtime Data Broadcasting" are shown, each displaying a list of variables and their broadcast settings.

CAN Realtime Data Broadcasting 3

Variable	Setting
32: AFR9,10,11,12,13,14,15,16	Off
33: PWMduty1,2,3,4,5,6,gear,timingerr	10Hz
34: EGOv1,2,3,4	Off
35: EGOv5,6,7,8	Off
36: EGOv9,10,11,12	Off
37: EGOv13,14,15,16	Off
38: EGOcor1,2,3,4	Off
39: EGOcor5,6,7,8	Off
40: EGOcor9,10,11,12	Off
41: EGOcor13,14,15,16	Off
42: VSS1,2,3,4	10Hz
43: syncnt,reason,SD:file#,err,phase,stat,timing_err	Off
44: VVTarg1,2,3,4	Off
45: VVTarg1,2,3,4	Off
46: VVTduty1,2,3,4,injtimingpri,sec	Off
47: eth%,tpsacc,SS1,2	Off

CAN Realtime Data Broadcasting

Enable realtime data broadcasting over CAN: On

Base message identifier (decimal): 1520

Variable	Setting
00: Seconds,PW1,PW2,RPM	20Hz
01: Advance,Squirt,Engine,AFRtgt1,2,WBen1,2	10Hz
02: Baro,MAP,MAT,CLT	20Hz
03: TPS,Batt,EGO1,2	10Hz
04: Knock,egocor1,2,aircor	Off
05: warmcor,tpsaccel,tpsfuelcut,barocor	Off
06: totalcor,ve1,ve2,iacstep	Off
07: cold_adv,TPSdot,MAPdot,RPMdot	Off
08: MAFload,fuelload,fuelcor,MAF	Off
09: egoV1,2,dwell,dwell_tri	Off
10: status1,2,3,4,5,6,7	Off
11: fuelload2,ignload1,2,airtemp	Off
12: wallfuel1,2	Off
13: sensors1,2,3,4	10Hz

CAN Realtime Data Broadcasting 2

Variable	Setting
16: sensors13,14,15,16	Off
17: boost_targ1,2,boostduty1,2,MAFv	Off
18: PWseq1,2,3,4	Off
19: PWseq5,6,7,8	Off
20: PWseq9,10,11,12	Off
21: PWseq13,14,15,16	Off
22: EGT1,2,3,4	10Hz
23: EGT5,6,7,8	Off
24: EGT9,10,11,12	Off
25: EGT13,14,15,16	Off
26: nitrous:duty1,2,timer,addfuel,retard	Off
27: CANpwinin1,2,3,4	Off
28: CLidletarg,tpsadc,EAEload,AFRload	Off
29: EAEfor1,2,VSS1dot,VSS2dot	Off
30: AccelX,Y,Z,streamlwl,waterduty	Off
31: AFR0,1,2,3,4,5,6,7,8	Off

CAN receiving

Enable receiving CAN data: On

Enable sharing CAN data: Off

Local variable / channel	Std/Ext	Identifier (dec.)	Offset	Size	Multiply	Divide	Add
CAN VSS1	Std	1635	0	B2U	0	1	0
Off	Std	0	47483648	1U	0	1	0
Off	Std	0	47483648	1U	0	1	0
Off	Std	0	47483648	1U	0	1	0
Off	Std	0	47483648	1U	0	1	0
Off	Std	0	47483648	1U	0	1	0
Off	Std	0	47483648	1U	0	1	0
Off	Std	0	47483648	1U	0	1	0
Off	Std	0	47483648	1U	0	1	0
Off	Std	0	47483648	1U	0	1	0
Off	Std	0	0	1U	0	1	0
Off	Std	0	0	1U	0	1	0
Off	Std	0	0	1U	0	1	0
Off	Std	0	0	1U	0	1	0