



OPUS Mongoose Plus OEM Vehicle Interface Cable User Guide

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OPUS Mongoose Plus OEM Vehicle Interface Cable



Product Information

Specifications

- Brand: Opus IVSTM
- Model: Legacy Leadership Plus
- Wireless Connection
- LED Status Indicators
- OBDII Connector
- FCC ID: SQGBT900
- IC: SQGBT900

Product Usage Instructions

Introduction

The Legacy Leadership Plus by Opus IVSTM is a versatile device equipped with wireless connection capabilities, LED status indicators, and an OBDII connector for seamless integration.

Driver Installation

1. Go to or click this link to go to the OPUS IVSTM downloads page: [OPUSI VSTM Downloads Page](#).
2. Click "Run" to install the software once downloaded to your PC.
3. Upon receiving the installation screen, read, check the box next to "Accept," then click "Install."
4. Follow the on-screen instructions for installation.

Device Activation

1. The Device Activator application will reopen after clicking "Activate My Device." Click the "Activate My Device!" button.
2. Select the interface device you want to activate and click "Continue."

FAQ

- **Q:** Can the Legacy Leadership Plus be used with all vehicle models?
 - **A:** The Legacy Leadership Plus is compatible with most vehicle models that support OBDII protocols. However, it is recommended to check the product specifications for compatibility details.
- **Q:** How do I know if the device is successfully connected?
 - **A:** The LED status indicators on the Legacy Leadership Plus will provide visual cues to indicate successful connection. Refer to the user manual for specific LED status meanings.

Safety Information

Please Note

Mongoose-Plus® interfaces have been carefully designed and tested to comply with OBDII protocols. However, some vehicle models are not in full compliance with these protocols for various reasons. In addition, the computer control systems or sensors on any given vehicle may be malfunctioning or out of specification.

While OPUS IVS™ testing and the experiences of thousands of Mongoose-Plus® users have shown the unit to be safe and reliable, there is an inherent risk in using any product that may potentially affect the operation or drive-ability of your vehicle.

If you are concerned about the operation of your vehicle at any time while using Mongoose-Plus®:

- Pull off the roadway immediately or as soon as it is safe to do so.
- Disconnect the Mongoose-Plus® from the OBDII port.
- Consult a licensed mechanic or automobile service center.

Please report any issues or concerns to our Technical Support Department at J2534support@opusivs.com or (734) 222-5228 option 2,1. We are open Monday-Friday, 9:00am-5:30pm Eastern Time. We maintain an active database of the feedback we receive, and your comments can help us continuously improve the product.

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Mongoose-Plus®, CarDAQ®, IMclean®, IMready® and J2534 ToolBox are registered trademarks of Opus IVS™. All other trademarks and brand names are the property of their respective owners.

Limited Warranty

Opus IVS™ guarantees that every Mongoose-Plus® is free from physical defects in material and workmanship under normal use for one year from the date of purchase.

In no event shall Opus IVS™ liability exceed the price paid for the product. Opus IVS™ shall be exempt from all other claims whether based upon direct, indirect, special, incidental, or consequential damages resulting from the use of the product, its accompanying software, or its documentation. Opus IVS™ makes no warranty or representation, expressed, implied, or statutory, with respect to its products or the contents or use of this documentation and all accompanying software, and specifically disclaims its quality, performance, merchantability, or fitness for any particular purpose. Opus IVS™ reserves the right to revise or update its products, software, or documentation without obligation to notify any individual or entity. Please direct all inquiries to:

- Opus IVS™
- 7322 Newman Blvd Building 3
- Dexter, MI 48130 United States

FCC STATEMENT

The wireless module has been tested and found to comply with the FCC Part 15 and ICRSS-210 rules. These limits are designed to provide reasonable protection against harmful interference in approved installations. This equipment generates,uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference may not occur in a particular installation. This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

1. this device may not cause harmful interference
2. this device must accept any interference received,including interference that may cause undesired operation.

Modifications or changes to this equipment not expressly approved by the part responsible for compliance may render void the user's authority to operate this equipment.
Modular Approval, FCC and IC.

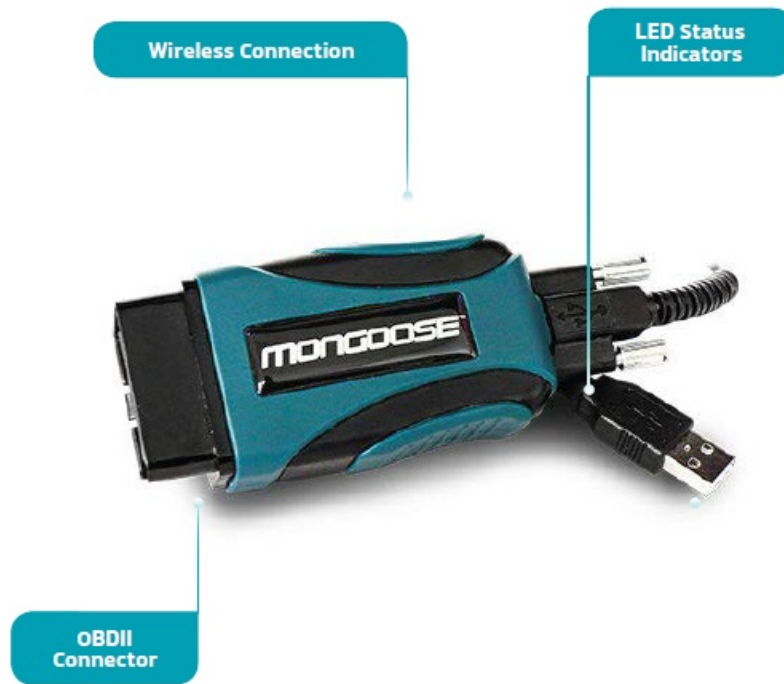
- **FCC ID** SQGBT900
- **IC** SQGBT900

In accordance with FCC Part 15, the BT900-SA is listed above as a modular transmitter device.

Introduction

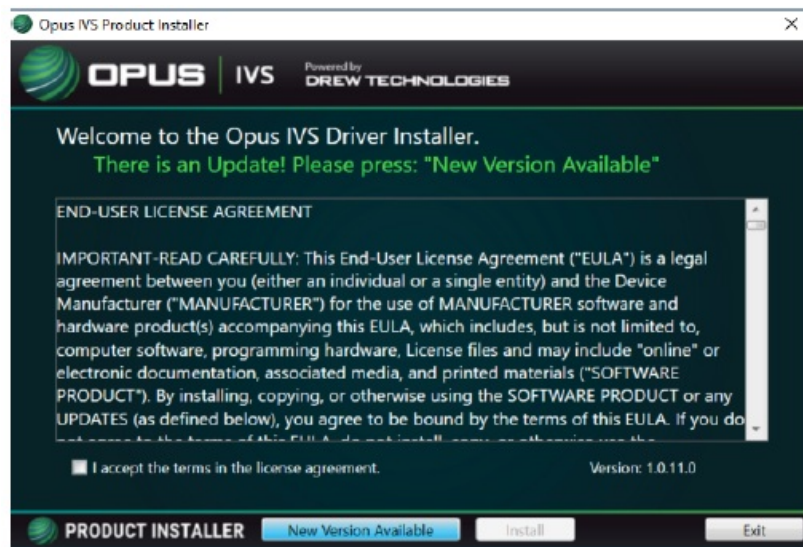
Thank you for choosing the Mongoose-Plus®! The Mongoose-Plus® will allow you to re-flash modern vehicle controllers to stock as well as perform dealer level diagnostics on select manufacturer's vehicles. The Mongoose-Plus® is an SAE J2534-compliant device at a low cost. It provides a direct connection to a laptop or desktop computer via a USB connection. All of the electronics are contained in the OBDII connector shell, making it a compact and rugged vehicle communications tool. The Mongoose-Plus® is powered by the USB connector, so there's no need to re-start the Mongoose-Plus® if it is unplugged from a vehicle.

Getting to know the Mongoose-Plus®



Driver Installation

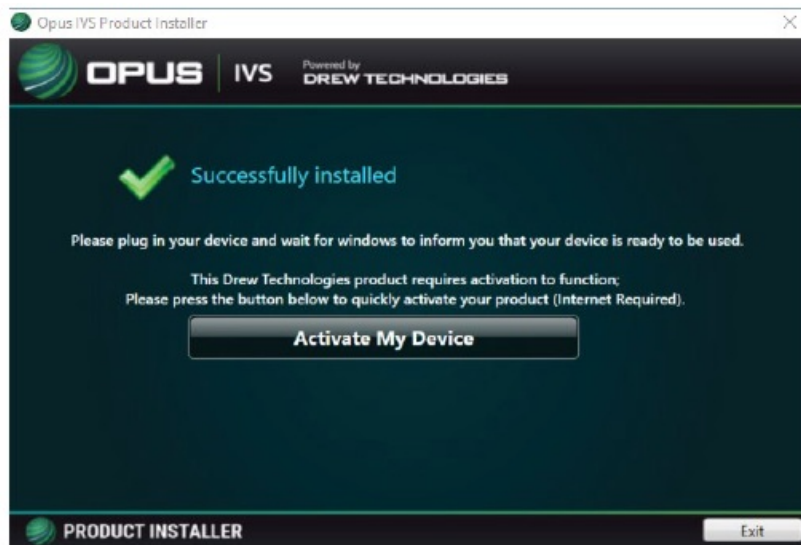
1. Go to or click this link to go to the OPUS IVS™ downloads page:
<https://www.opusivs.com/support/downloads>.
2. Click the Set-up link for the respective Mongoose-Plus® be installed.
3. Click Run to install the software once the software has downloaded to your PC.
4. Upon receiving this screen, read, check the box next to Accept then click Install.



5. Installing...



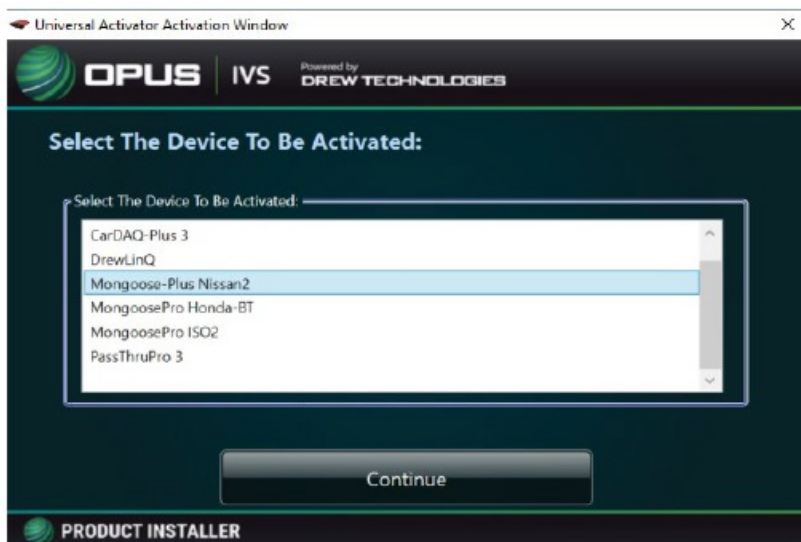
6. Once the setup application has finished, connect the Mongoose-Plus ® to the PC. Once you have gotten a message in the lower, right-hand corner of your screen that the device has been installed, click on Activate My Device .



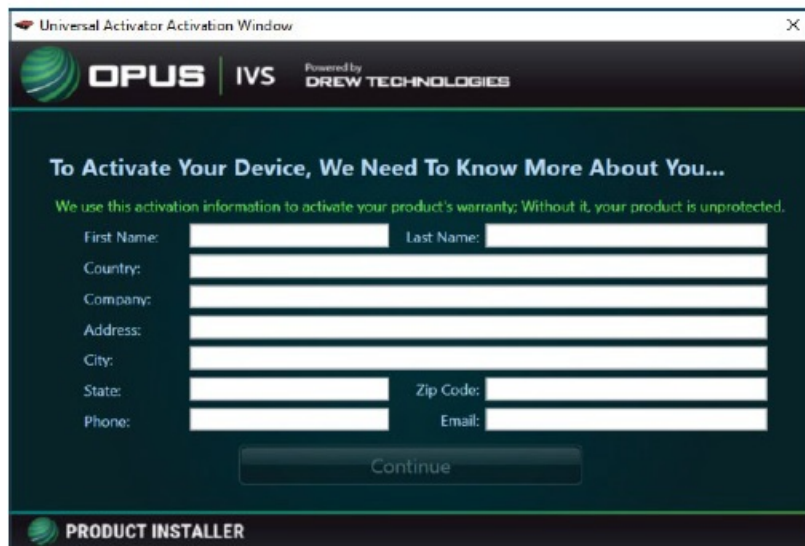
7. The Device Activator application will reopen after clicking Activate My Device. Click the Activate My Device! button.



8. Select the interface device you want to activate and click Continue.



9. Enter the applicable information and click Continue.



Universal Activator Activation Window

OPUS | IVS Powered by **DREW TECHNOLOGIES**

To Activate Your Device, We Need To Know More About You...

We use this activation information to activate your product's warranty; Without it, your product is unprotected.

First Name: Last Name:

Country:

Company:

Address:

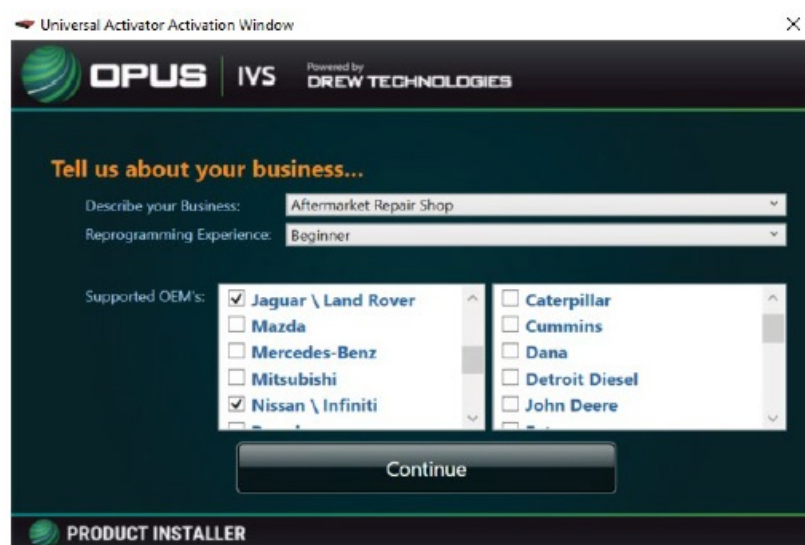
City:

State: Zip Code:

Phone: Email:

PRODUCT INSTALLER

10. Select your type of business and level of programming experience, then select the OEM's you are planning to support. Click Continue.



Universal Activator Activation Window

OPUS | IVS Powered by **DREW TECHNOLOGIES**

Tell us about your business...

Describe your Business:

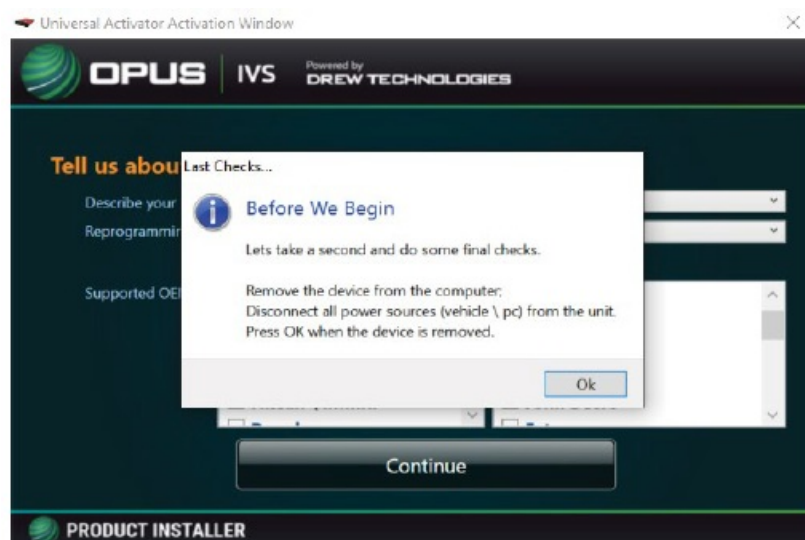
Reprogramming Experience:

Supported OEM's:

<input checked="" type="checkbox"/> Jaguar \ Land Rover	<input type="checkbox"/> Caterpillar
<input type="checkbox"/> Mazda	<input type="checkbox"/> Cummins
<input type="checkbox"/> Mercedes-Benz	<input type="checkbox"/> Dana
<input type="checkbox"/> Mitsubishi	<input type="checkbox"/> Detroit Diesel
<input checked="" type="checkbox"/> Nissan \ Infiniti	<input type="checkbox"/> John Deere

PRODUCT INSTALLER

11. Leave the Mongoose-Plus® disconnected from the PC.



Universal Activator Activation Window

OPUS | IVS Powered by **DREW TECHNOLOGIES**

Tell us about your business...

Describe your Business:

Reprogramming Experience:

Supported OEM's:

<input checked="" type="checkbox"/> Jaguar \ Land Rover	<input type="checkbox"/> Caterpillar
<input type="checkbox"/> Mazda	<input type="checkbox"/> Cummins
<input type="checkbox"/> Mercedes-Benz	<input type="checkbox"/> Dana
<input type="checkbox"/> Mitsubishi	<input type="checkbox"/> Detroit Diesel
<input checked="" type="checkbox"/> Nissan \ Infiniti	<input type="checkbox"/> John Deere

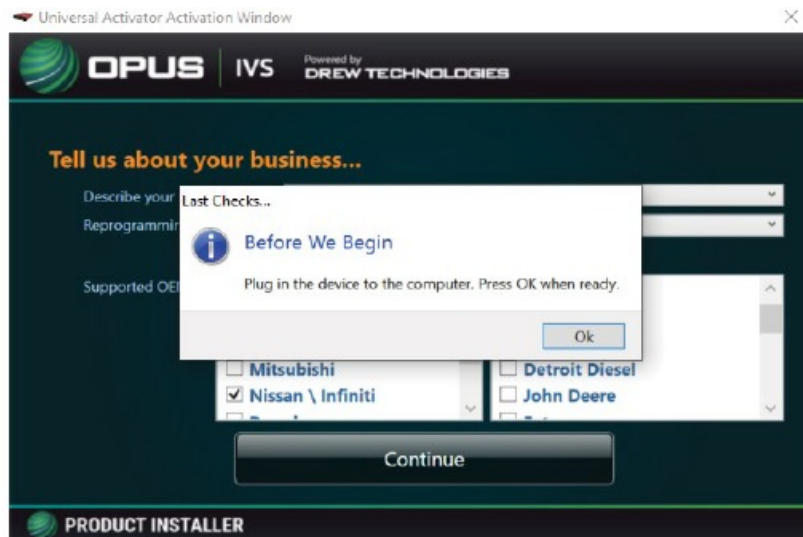
Before We Begin

Lets take a second and do some final checks.

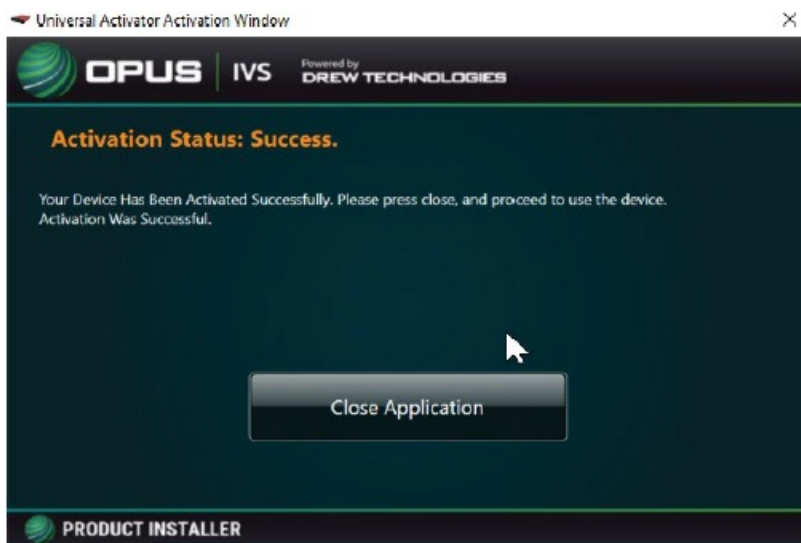
Remove the device from the computer;
Disconnect all power sources (vehicle \ pc) from the unit.
Press OK when the device is removed.

PRODUCT INSTALLER

12. Plug your Mongoose-Plus® to the PC, and click OK.



13. This is the screen you will see once your device activation is successful.



- **Note:** Once product activation is performed successfully, you can also install the device on other PC's and not have to perform the activation procedure again.

Subaru SSM3 Driver User Guide

READ ME FIRST

Your Opus IVS VCI driver and configuration application are installed during the device installation process. Before proceeding please ensure that you have completed the steps in the Mongoose Plus User Guide & CarDAQ Plus 3 User Guide.

Using OPUS IVS VCI with SSM3

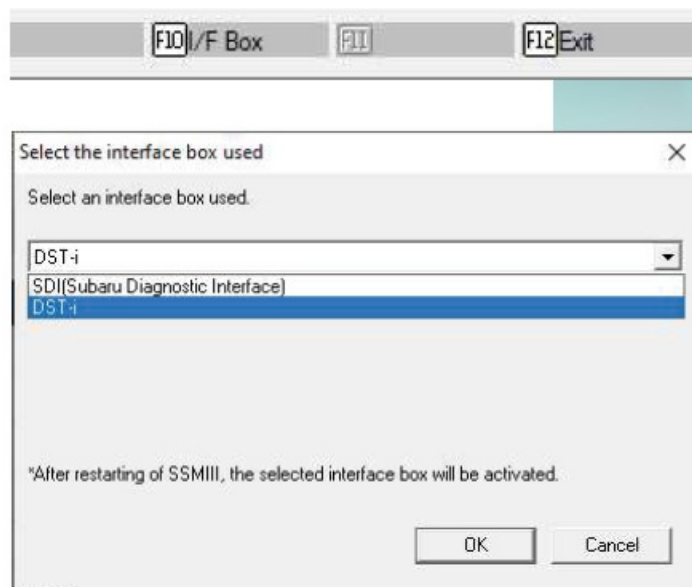
SELECTING THE OPUS IVS VCI FOR USE WITH SSM3



1. Using the Opus SSM3 Config App you will select the correct device to be used with SSM3 software. If the Opus SSM3 Config App is not running you can find this in the Start | Drew Technologies menu.
2. To select the Opus IVS VCI as your default device, in the Device drop-down list select Device Technologies – CarDAQ-Plus3 OR Device Technologies -Mongoose Plus Subaru.
3. Click the Save button
4. To complete the selection process click the Close button.

Warning: If you are experiencing issues using the Opus IVS VCI with SSM3 you can enable Debug Logging here to create a log Opus IVS support can use to help resolve your issue.

SELECTING THE OPUS IVS VCI FOR USE WITH SSM3



1. Using the SSM3 software, press F10 or select I/F Box in the toolbar.
2. Next, in the “Select the interface box used” window, select DSTi as the vehicle interface.
3. Finally, click the OK button to complete the process.
4. Congratulations you are ready to scan your Subaru vehicles.

TROUBLESHOOTING

Common Problems

1. In the Device selection drop-down list I can’t see any Drew Technologies devices.
 - Ensure that you have completed the device installation process as outlined in the Mongoose Plus User

Guide & CarDAQ Plus 3 User Guide provided with your device.

2. I have SSM4. Do I need to follow any of these steps?

- No, SSM4 and SSM5 do not require a special device selection to operate.

3. I keep having to make the device selection everytime I reboot my Windows device.

- Ensure that you have sufficient privileges to save to the Windows Registry. Please contact your System Admin or login with an Admin privileges.

4. SSM3 takes a long time to scan the entire vehicle?

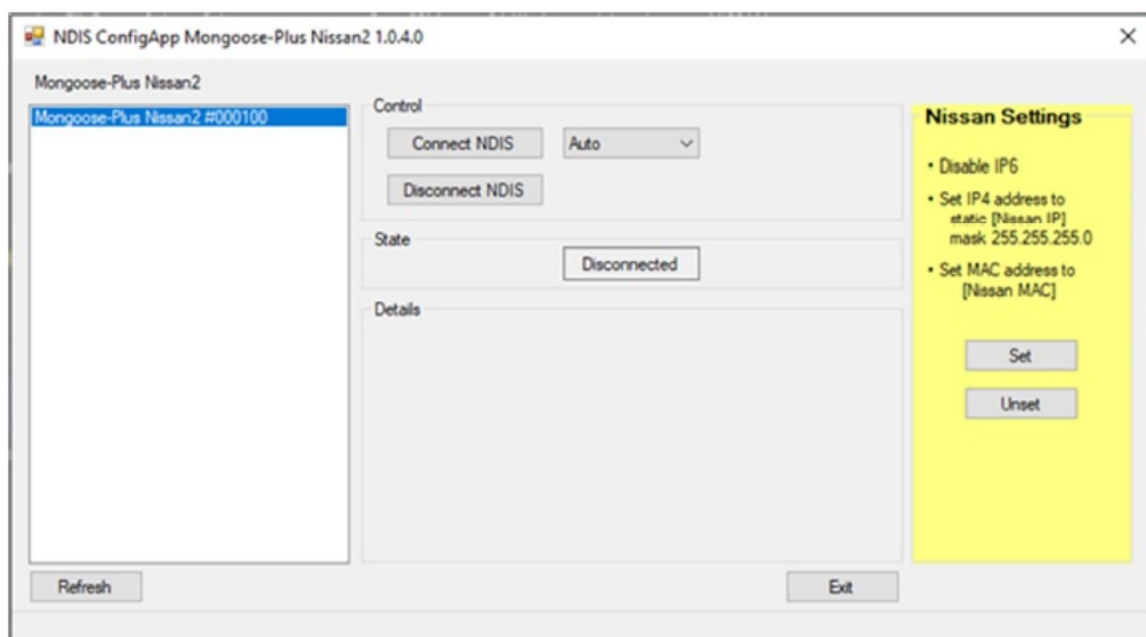
- The SSM3 software is traditionally very slow to complete this process.
- Later versions of the software (SSM4 and SSM5) significantly improved the speed of this request.
- The DSTi VCI has no speed advantage over the Opus IVS device. This is a software related issue.
- If you still need help consult the User Guide or contact us:
 - email: J2534support@opusivs.com
 - phone: 1-734-222-5228 Option (2,1)
 - www.opusivs.com

Nissan NDIS Config App Guide

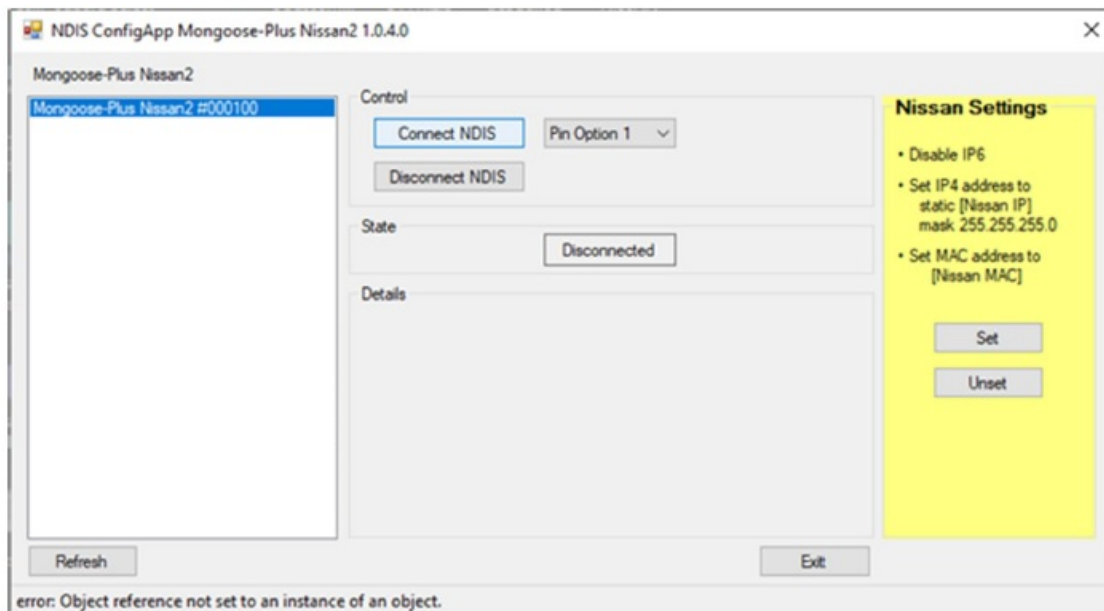
READ ME FIRST

Preparing for Nissan Consult 4 with your Mongoose Plus Nissan2.

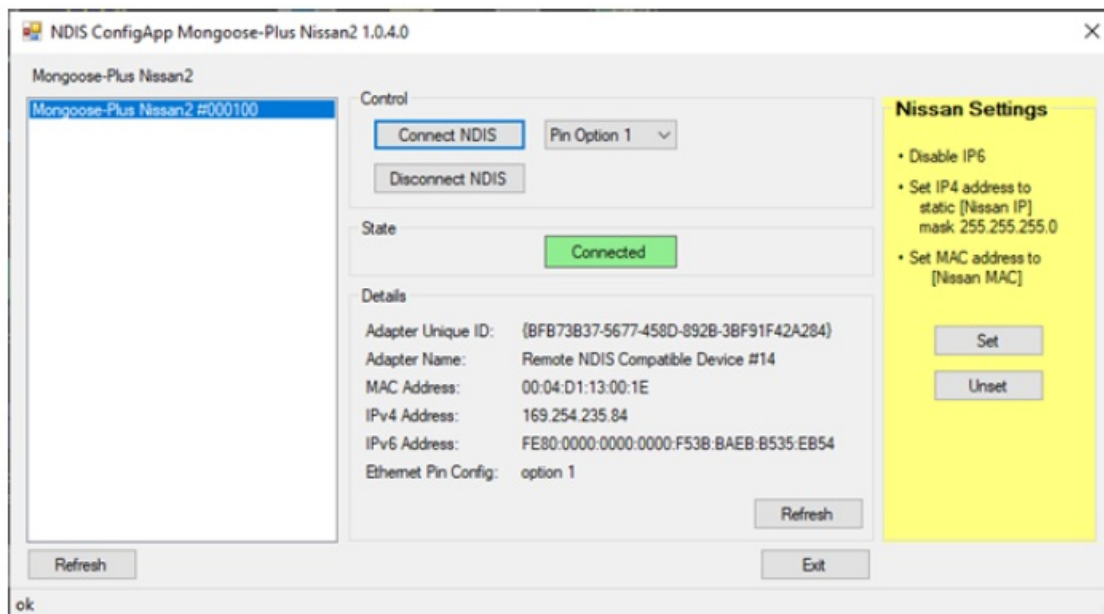
1. Plug the Mongoose Plus Nissan2 into your PC and the vehicle DLC.
2. Click the start button.
3. Click on “all apps”
4. Scroll down to Drew Technologies, inc.
5. Click on “Mongoose-Plus Nissan2 NDIS Config App”
6. Once open confirm the device is seen on the right-hand side of screen and click on it.



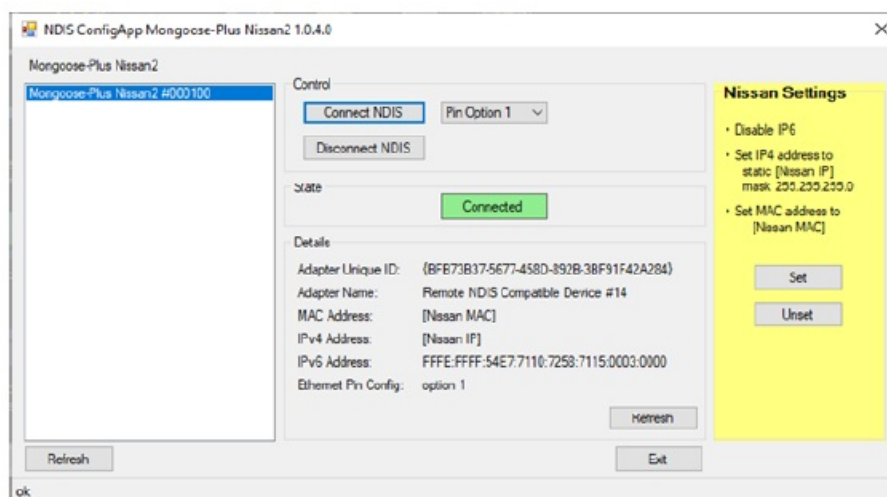
7. Click “Connect NDIS”



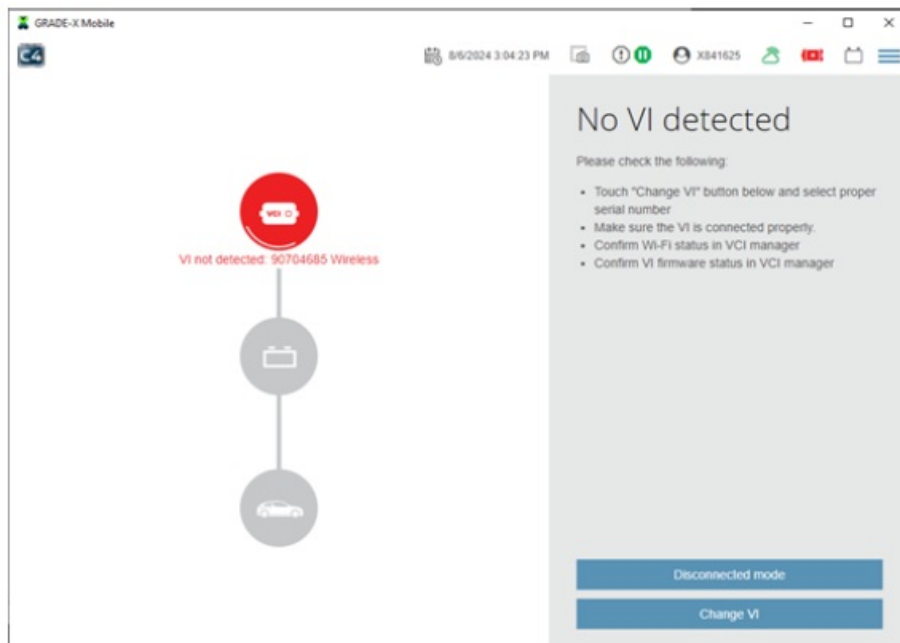
8. If the MAC address does not read [Nissan MAC] and the IP address does not read [NissanIP], click “Set” under Nissan settings. Note: this may take 2 min.



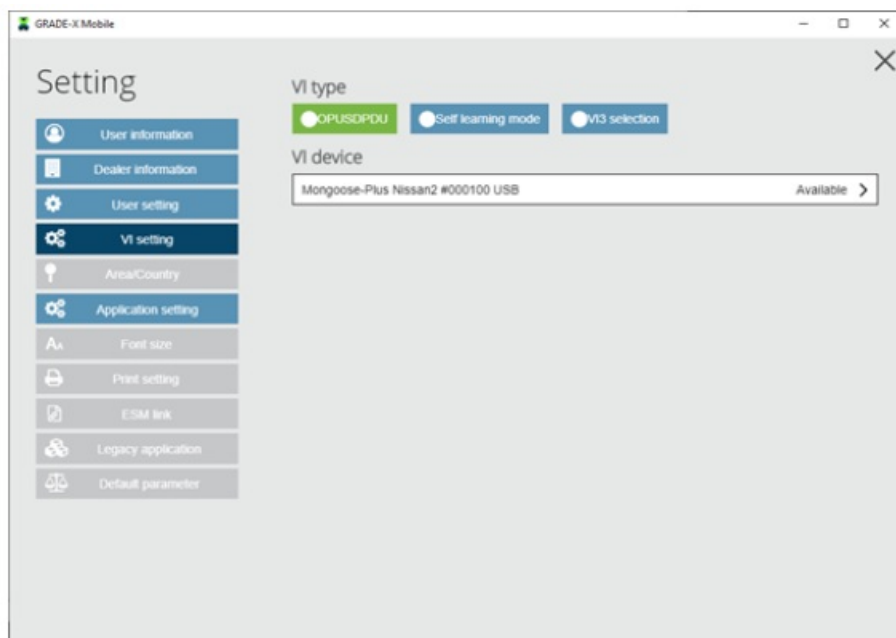
9. After the “Details” pane clears of information, click connect again and confirm that [Nissan MAC] & [Nissan IP] are shown.



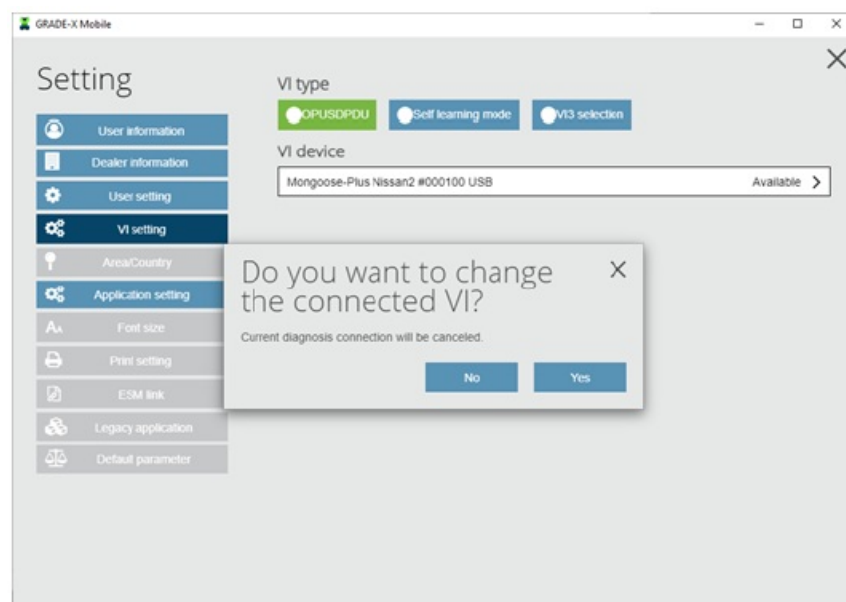
10. Click “Disconnect NDIS” and close the window.
11. You may now launch Consult 4.
12. Consult 4 will not automatically see the Mongoose. Click “ChangVI”



13. Click on "OPUSDPDU" and click on the Mongoose Nissan2 entry below.



14. Click yes to select the Mongoose Plus Nissan2.

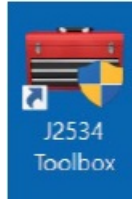


15. Consult 4 will now start connecting to the vehicle

J2534 Toolbox 3

The purpose of the J2534 Toolbox is to provide current, relative information and assistance to the user. The information is provided via various walk-through documents, OEM documentation, web-links, quick-links, videos, basic diagnostic functions, connection verification and much more. The J2534 Toolbox should be referred to regularly as information is updated continually.

1. Locate and double-click the J2534 Toolbox Icon on the desktop




2. Select your interface from the drop-down menu and click Auto Login.



- **GENERAL TAB:** Contains important news, current OEM concerns, training broadcast invitations and current information you should review.

Headlines, News, Events, and Announcements

NEWS AND ANNOUNCEMENTS



Announcements:

New tab structure for Toolbox. Click [HERE](#) for information.

Installation concerns with CarDAQ Plus 2 family on Windows 10 click [HERE](#)

Check out this video as a helpful reminder of the importance of ensuring a successful reprogramming or diagnostics event. Click [HERE](#).

NASTF LSID information is located [HERE](#).

Drew Technologies & Autologic Diagnostics are now OPUS IVS. Click [HERE](#) for more information.

- 09/13/21: General Motors will be sunsetting GPS on the TIS website on Sunday September 26th, 2021. See GM Information under the North America tab for more information.
- 08/30/21: Ford FJDS 121 and FJDR 29.5.3 have been released. Uninstall any older version before installing this newer version.
- 08/29/21: Mazda MPP version 123 and MDIFA 123 has been released. Uninstall any older version before installing this newer version.
- 04/01/21: Toyota Techstream 16.10.017 is released.
- 10/02/20: JLR_SDD Software current release is version 100.
- 07/06/20: Chrysler: Chrysler will require an additional Programming subscription as of 07/16/2020 for WTECH 2.0 Programming.
- 06/19/19: GM: New Process for using a J2534 device with GPS. Click [HERE](#) for more information.
- 06/18/19: GM: **ISSUE: There is a field action for this vehicle.** Message displayed in GPS on the VIN verification screen. See Important News in the GM section.
- 05/29/19: Nissan: NERIS 4.03 is released.
- 02/18/19: GM: The TDS Website has a new look. See the TDS Walkthrough located in the GM Section of the North America Tab.
- 05/07/18: BMW: Important news for programming P series. See the North America Tab: BMW-Information-Capabilities.
- 04/27/18: Audi/VW: See the New Windows 10 Requirements under the PC specs.

OEM Open Issue Status

- Audi/VW:** VW/Audi is experiencing issues with our credit card payment provider for eVIN Service Information and ODIS Diagnostic subscriptions. The purchasing process for eVIN and ODIS Subscriptions will change on Monday September 21st, and could last thru the end of the month.
 - To make a purchase:
 - Go through the normal process on eVIN.
 - During checkout you will be directed to a 3rd party website to complete your payment.
 - Once complete, VW/Audi will contact you within 1 business day with your next steps.
 - Please expect a 1 business day delay in processing from the time you place your order. If the purchase is made after normal business hours (7AM-4PM ET and weekends), the subscription may not be available until the next business day. We apologize for this inconvenience.
- Technical:** ver 16.10.028 is currently experiencing connection issues with some J2534 devices. See Toyota info section for more information.
- GM:** is currently having issues with programming EBCM's on Canyon/Colorado trucks. GM is looking into the issue. Opus is asking customers to enable the Debug feature to create a log of any programming event involving the EBCM on Canyon/Colorado 2.
- BMW/MINI:**
 - If you are having communication issues with ISTA or ISTA+ see the BMW info page under the North America tab.
- Chrysler:**
 - There is an issue with 1998-2007 Dodge Ram vehicles equipped with 5.9L Cummins engines. After programming this vehicle, the VIN is lost and the vehicle will not start.
- Click [here](#) for the NASTF Complaint Process - Know what you as a technician need to do about problems stemming from manufacturer re-flash errors.
- Mitsubishi:**
 - MUT3-SE is currently not properly connecting to a J2534. This is affecting all Drew Tech devices. MUT3-SE will not properly connect to J2534 at this time. Opus/IVS is investigating however there is not ETA on a resolution at this time.

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- **SALES TAB:** Connects you to the Opus IVS™ website.

OPUS IVS | Drew Tech Diagnostics | ABOUT US | SERVICES | PRODUCTS | SUPPORT



CARDAQ3 PLUS3

The Industry's Leading J2534 Device

FEATURED PRODUCTS

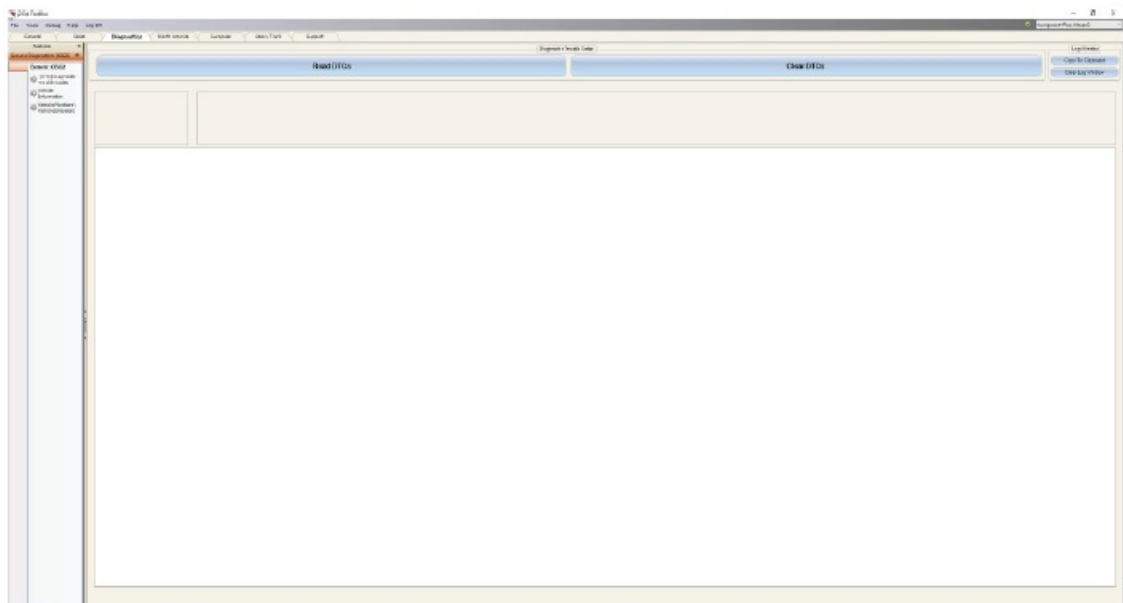


DriveSAFE™



RAP 2

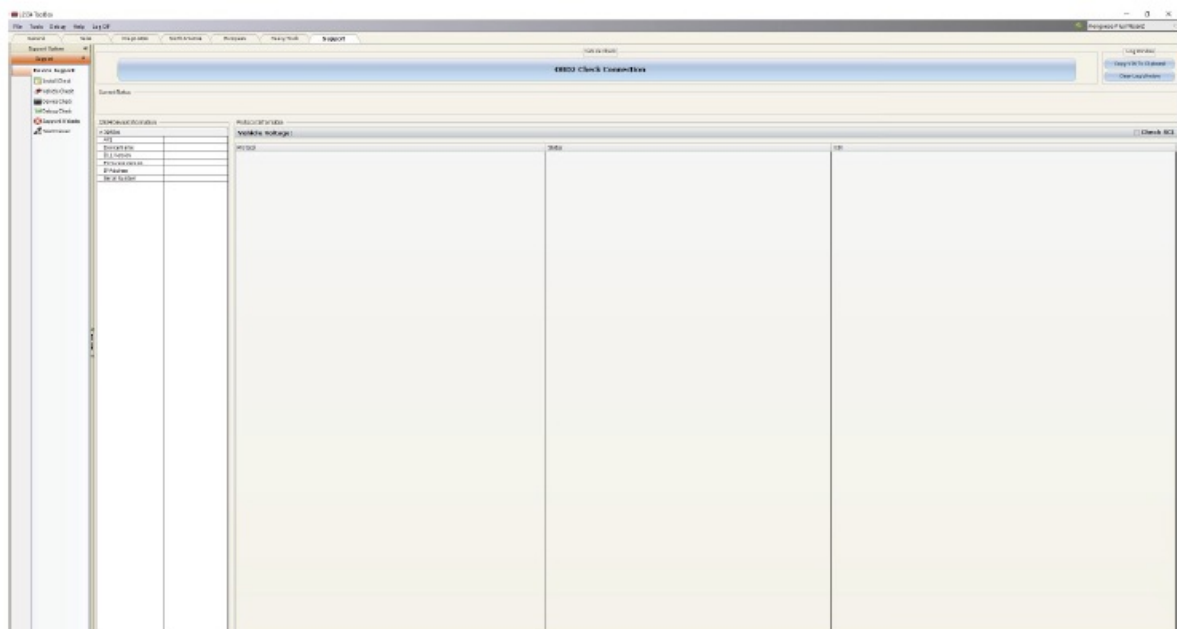
- **DIAGNOSTIC TAB:** Contains relative links, some diagnostic functions, information and videos about flashing and OEM's that currently provide diagnostics via J2534.



- **FLASHING TAB:** Contains the information pertaining to OEM J2534 flashing including links, information, walk-throughs, and some helper functions.



- **SUPPORT TAB:** Contains functions to check driver installation, vehicle communication, updating the device, create debug logs, contact Technical Support and other resources.



- **TRAINING TAB:** Contains general information, installation and Using OEM J2534 Application Videos with Drew Technologies products.

Maximum Voltage

Maximum Voltage Per Mongoose-Plus® Product

Product	Max VBatt	Min VBatt CAN	Min VBatt J1850	Min VBatt K-Line	Min VBatt SCI
Chrysler 2	32	N/A	9	6	10
Ford 2	32	N/A	N/A	6	N/A
GM 3	32	N/A	9	6	N/A
Honda 2	32	N/A	N/A	6	N/A
ISO/CAN 3	32	N/A	N/A	6	N/A
Nissan	32	N/A	N/A	6	N/A
Subaru	32	N/A	9	6	N/A
Toyota 3	32	N/A	9	6	N/A
VW 2	32	N/A	N/A	6	N/A

Connector Pin Assignments

Mongoose-Plus® Vehicle Connector Pin Assignments

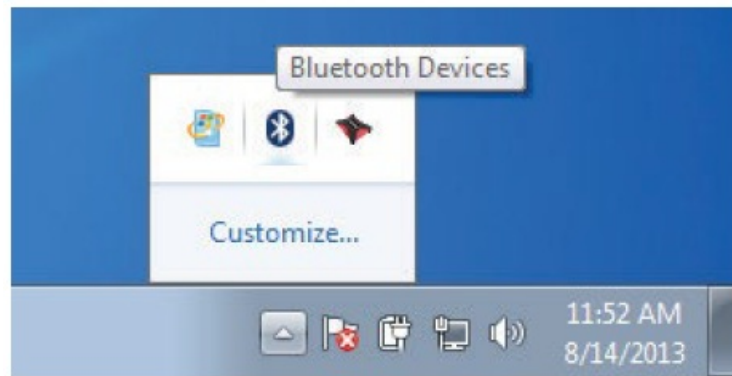
Feature	VW2	Honda2	ISO/CAN3	MFC3	Ford2	Nissan2	GM3	Chrysler2	Subaru
Product Code	SQ	SN	SP	SL	SM	SO	SR	SS	SU
USB ID	0x018F	0x018C	0x018E	0x018A	0x018B	0x018D	0x191	0x192	0x194
CAN-FD 1 (6&14)	●	●	●	●	●	●	●	●	●
CAN-FD 2 (3&11)	●	●		●	●		●	●	●
CAN-FD 2 (3&8)				●				●	●
CAN-FD 3 (12&13)							●	●	
CAN-FD 3 (1&9)							●	●	
CAN-FD ? (SW Pin 1)							●		
Fault Tolerant CAN3 (1&9)								●	
Fault Tolerant CAN1 (6&14)								●	
Ethernet/NDIS (3&11) ISO 13400-3 option 1	●	●	●	●		●	●		●
Ethernet/NDIS (1&9) ISO 13400-3 option 2					●			●	
Ethernet Activation (meas V on pin 8, pull up 4.7k, 500 ohms)	●	●	●	●	●	●	●	●	●
J1850 (VPW) (Pin 2)				●			●	●	●
J1850 (PWM) (2&10)				●	●				●
ISO Serial K-line (Pin 7)	●	●	●	●	●	●	●	●	●
ISO Serial K-line or L line(Pin 15)	●	●	●	●	●	●	●	●	●
K line (pin 1)								●	
K line (pins 3,6,7,8, 9,12,13,15)							●		
DiagH(Pin 1)		●							
DiagH(Pin 14)		●							
GM UART (pins 1,9)							●		
SCI (Pin 6,7,9,12,14,15)								●	
STG(Pin 1)	●	●		●	●	●			●
STG(Pin 9)	●	●		●	●	●			●
STG(Pin 15)	●	●	●	●	●	●	●	●	●
VPP 5Volts(Pin 12)	●	●		●		●			●
VPP FEPS(Pin 13)				●	●				●
UART Echo Byte	●	●	●	●	●	●	●	●	●
TP 1.6 / 2.0	●								
Measure V on pin 1	●	●		●	●	●	●	●	●
J2534-1 0500 support	●	●	●	●	●	●	●	●	●

Bluetooth Setup

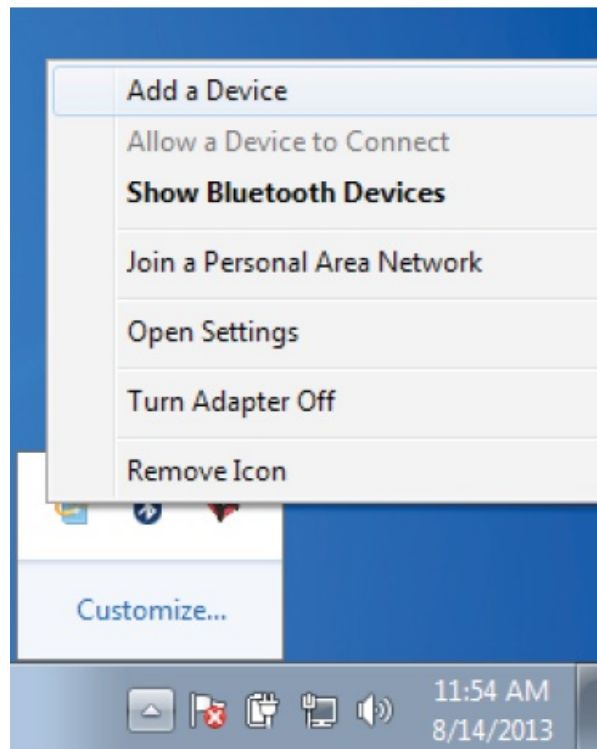
Bluetooth is an option that can be purchased with some Mongoose-Plus® versions. If you have purchased Bluetooth, your Mongoose-Plus® will have a BT at the end of the model number.

Please note that Opus IVS™ does not recommend doing any reprogramming over Bluetooth.

1. Make sure your Mongoose-Plus® is plugged into the DLC. You have 2 minutes to pair after device is powered up. If you exceed 2 minutes remove Mongoose-Plus® from DLC and start over.
 - **Note:** USB cable must be removed to pair Bluetooth.
2. To pair your Mongoose-Plus® BT, right click on the Bluetooth icon in the System Tray.



3. Click on Add Device



4. Select your device from the available options, then click Next.

5. Enter the pairing code 2534 in the text box and click Next pair the Mongoose-Plus®.

6. Your Mongoose-Plus® has been successfully paired with your PC.

Note: Only have one (1) Mongoose-Plus® paired with your PC to avoid erroneous test results. The Mongoose-Plus® driver will inform if you have multiple devices paired to your PC.

Technical Support

Please contact Opus IVS™ for technical support at J2534support@opusivs.com. or (734) 222–5228 option 2,1. If technical support finds it necessary for the unit to be returned for repair, you will be asked for your contact information and then provided with a Return Merchandise Authorization number (RMA #) . Opus IVS™ will use the RMA # to track the unit through the repair process.

Please write this number on the outside of your shipping box so it can be routed to the correct department. If the necessary repair is not covered by Opus IVS™' warranty, you will be contacted for payment arrangements.

Mongoose-Plus LED Indicators

Mongoose-Plus LED Indicators – USB Only Device				
LED	Blinking Red	Solid Red	Blinking Green	Solid Green
Left LED	N/A	Firmware Error – Call Support	Device Start Up Process	Device is Functioning
Right LED	Data Transfer	Vehicle Power With No USB	N/A	N/A

Mongoose-Plus LED Indicators – USB and Bluetooth Device								
LED	Blinking Red	Solid Red	Blinking Green	Solid Green	Blinking Blue/Green	Solid Blue	Blinking Blue	Blinking White/Blue
Left LED	N/A	Firmware Error- Call Support	Device Start Up Process	Device is Functioning	N/A	Bluetooth On	N/A	N/A
Right LED	Data Transfer	N/A	N/A	N/A	Pairable	Bluetooth Connected	Not Pairable	Data Transfer

Note: If not Pairable, unplug from the vehicle connector and plug it back in (restart the device)

Environmentals

Environmental conditions, 5°C to 40°C and a Maximum relative humidity 80% for temperatures up to 31°C decreasing linearly to 50% relative humidity at 40°C

Indoor use only

- **Altitude:** 2000m above mean sea level
- **Relative humidity:** 0 to 90%
- **Over voltage category:** II
- **Pollution degree:** 2

Contact


Powered by DREW TECHNOLOGIES

- 7322 Newman Blvd Building 3 Dexter, MI 48130 United States
- 877.888.2534

- 844.REFLASH (844.733.5274)
- opusivs.com

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Documents / Resources

	<p>OPUS Mongoose Plus OEM Vehicle Interface Cable [pdf] User Guide REVISED_15, REVISED_10, Mongoose Plus OEM Vehicle Interface Cable, Mongoose Plus, OEM Vehicle Interface Cable, Vehicle Interface Cable, Interface Cable, Cable</p>
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References

- [OPUS IVS - Buy Automotive Diagnostic Tools and J2534 Devices](#)
- [User Manual](#)

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