

bluePRINT Link[®] Firmware Download

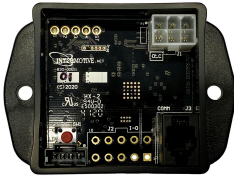
bluePRINT Link Firmware updates require following a very strict process for updating bluePRINT Link modules. This document serves as a guideline/overview for how the process works.

In order to update bluePRINT Link, you will need the following five items:

1. A bluePRINT Link Module or Micro Module.
2. A bluePRINT Link Programming Cable - Part Number ENGLNDH002 (or alternately Intermotive Part Number A-IPU). **Please note: this cable was not available through SoundOff Signal prior to 05/01/2021. If you have a cable that came from a third party source, it will likely cause issue during the firmware update process when used in conjunction with a bluePRINT Micro Link Module.**
3. A power source. This can be a 12v power supply, a 120vac to 12vdc converter (capable of 500ma), or using the vehicle harness that is included with the bluePRINT Link kit.
4. Intermotive Download Manager software.
5. Firmware files as discussed below.
For most up to date Firmware files, visit: <https://myportal.soundoffsignal.com/s/software>

Below is a list of all the files included with this archive, separated by which module each firmware works for.

bluePRINT Micro Link Firmware Files



Folder Labeled: MICRO - ENGLMK001, 003	Contains CAN-FD Firmware Compatible with ENGLMK001 & ENGLMK003 kits, and ENGLMMD001 standalone modules.
Folder Labeled: MICRO - ENGLMK004	Contains CAN Single Wire Firmware Compatible with ENGLMK004 kits and ENGLMMD004 standalone modules.
Folder Labeled: MICRO - ENGLMK002, 005, 006, 007, 008, 009, 012	Contains CAN Two Wire Firmware Compatible with ENGLMK002, ENGLMK005, ENGLMK006, ENGLMK007, ENGLMK008, ENGLMK009 & ENGLMK012 kits, and ENGLMMD002 standalone modules.



bluePRINT Link Legacy Firmware Files

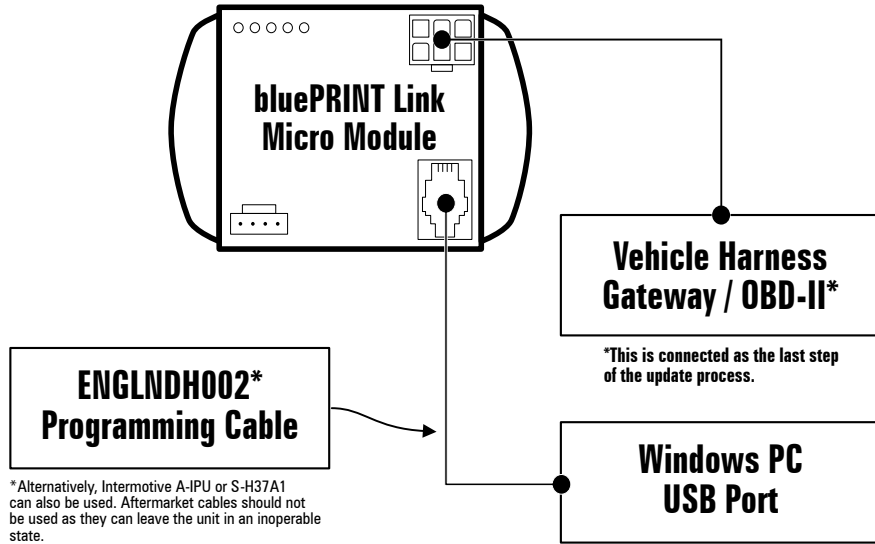
Folder Labeled: LEGACY - ENGLNKxxx	bluePRINT Link Legacy Modules Compatible with all ENGLNKxxx Series Modules and ENGLNMD001 standalone Modules.
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Other Included Files

Read First - bluePRINT Link Firmware Overview.pdf	This File
ENGLNDH002.pdf	bluePRINT Link Programming Cable Instructions



bluePRINT Link® Firmware Programming Cable ENGLNDH002



*Alternatively, Intermotive A-IPU or S-H37A1 can also be used. Aftermarket cables should not be used as they can leave the unit in an inoperable state.

WARNING

- bluePRINT Link installation requires interfacing with the vehicle CANBUS system. All connections should be double-checked and secured prior to completing installation.
- Refer to vehicle manufacturer's instructions for connection to the CANBUS.
- DO NOT install this product or route any wires in the Air Bag Deployment Zone. Refer to vehicle Owner's Manual or Upfit Guide for deployment zones.
- Do NOT use system to disconnect headlights, brake lights or other safety equipment.
- Unit may become hot to touch during normal operation.
- Failure to properly install connectors, fuses or wiring may cause vehicle failure or fire.
- Installation must only be performed by trained technician. Installer must determine vehicle wiring configuration and proper integration of system
- Install protective grommets when routing wire through firewall or metal.
- Confirm that CANBUS signals are being accurately reported using the diagnostic tool provided in the configuration software.

NOTICE:

Installers and users must comply with all applicable federal, state and local laws regarding use and installation of warning devices.

Improper use or installation may void warranty coverage. To review our Limited Warranty Statement & Return Policy for this or any SoundOff Signal product, visit our website at <https://soundoffsignal.com/support-page/warranty/>. All returned items must be properly packed to prevent damage in transit.

If you have questions regarding this product, contact **Technical Services**, Monday - Friday, 8 a.m. to 5 p.m. at 1.800.338.7337 (press #4 to skip the automated message). Questions or comments that do not require immediate attention may be emailed to techgroup@soundoffsignal.com.

Software Installation

Download and install Intermotive Download Manager using the link below:

- <https://intermotive.net/downloads/>
- Intermotive Download Manager is intended to work with Windows computers.

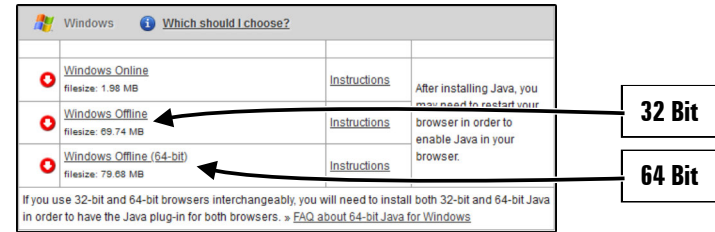
Download and install D2xx FTDI Drivers using the link below:

- <https://ftdichip.com/drivers/d2xx-drivers/>
- After installation, connect to a powered central controller, breakout box, or bluePRINT Link BEFORE running Intermotive Download Manager.
- Note: bluePRINT uses these drivers. There is a good chance these may already be installed.

Operating System	Release Date	X86 (32-bit)	X64 (64-bit)	ARM	MIPS	SH4	Comments
Windows*	2017-08-30	2.12.28	2.12.28	-	-	-	WHQL Certified. Includes VCP and D2XX. Available as a setup executable . Please read the Release Notes and Installation Guides .

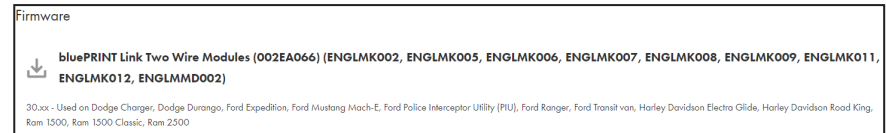
Download and install Java using the offline installation files found at the following link:

- <https://www.java.com/en/download/manual.jsp>
- There are versions for both 64 bit and 32 bit operating systems. For 64 bit systems, we recommend installing both versions. If unsure, install the 32 bit version. See the below screenshot itemizing which is which.



Download the newest Firmware files at:

- <https://myportal.soundoffsignal.com/s/software>
- Make sure to download the correct Firmware for your application.



Firmware Programming Instructions

1. Connect the bluePRINT Link Firmware Programming Cable to the the bluePRINT Link Module using the 4 pin RJ-9 connector.
2. If bluePRINT Link is already installed in the vehicle, disconnect the vehicle harness (6-pin white connector).
3. Open Intermotive Download Manager and click on COM Port. Note which ports are available. See Image 1.
4. Connect the USB end of the bluePRINT Link Firmware Programming cable to the Windows computer USB port.
5. Click Refresh and reopen the COM port selector as shown in image 2. Select the port that appeared after the refresh. This is the communication port for the bluePRINT Link Firmware Programming Cable.
6. Click Open File to load the firmware file. The latest firmware file can be downloaded from the Dealer Portal. Please note, the file downloadable from the Dealer Portal includes 4 different firmware files identified by their firmware version:
 - 5.xx - This is firmware for the original full size bluePRINT Link module ENGLNMD001.
 - 10.xx - This is firmware for the bluePRINT Link CAN-FD module ENGLMMD001.
 - 20.xx - This is firmware for the bluePRINT Link Single-Wire CAN module ENGLMMD004.
 - 30.xx - This is firmware for the bluePRINT Link Two-Wire CAN module ENGLMMD002.
7. You may receive a notice stating "Loading application code, not configuration file!" like the one shown in image 3. This is ok. Please click on OK.
8. Next click "Load." Before proceeding to the last step, make sure the message below the progress bar says waiting as shown in image 4.
9. The final step is to connect the vehicle harness (6-pin white connector) to bluePRINT Link to supply power during the update process. *Ignition should be active during this step.* Once the process starts, it usually takes 10-15 seconds to complete. During the process, the progress indicator bar will fill up from left to right, and there will be messaging below that indicating what the programmer is currently doing. Lights will rapidly flash on the module during this step.
10. Once complete, unplug the bluePRINT Link Firmware Programming Cable from bluePRINT Link.
11. If additional modules need to be reprogrammed, leave the software open, disconnect the vehicle harness from the additional modules as described in step 1, and then repeat steps 8 through 10.

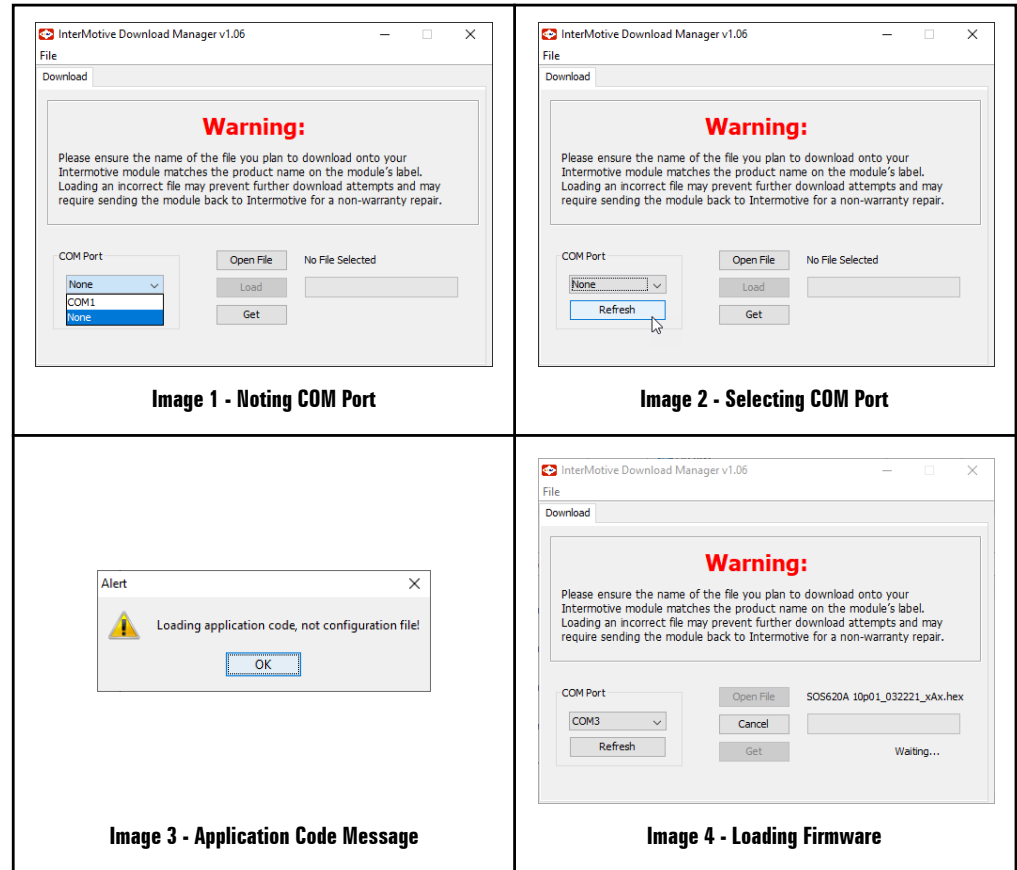


Image 1 - Noting COM Port

Image 2 - Selecting COM Port

Image 3 - Application Code Message

Image 4 - Loading Firmware

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