

inLINK NGX

User Guide

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1 Welcome to inLINK NGX

Thank you for choosing inLINK NGX! This guide will walk you through everything you need to know to get started with your new vehicle control system. inLINK NGX puts powerful vehicle controls right at your fingertips through an easy-to-use interface on your smartphone or tablet.

1.1 What is inLINK NGX?

inLINK NGX is a wireless vehicle control system that allows you to:

- Control lights, fans, and other accessories from your device
- Monitor and adjust vehicle systems in real-time
- Customize your control dashboard to match your needs
- Access climate controls and window operations
- Use key fob or Bluetooth authentication for secure access

1.2 What You'll Need

- Your inLINK NGX device (already installed in your vehicle)
- A smartphone or tablet (iPhone, iPad, or Android device)
- 5-10 minutes for the initial setup

2 Getting Connected

2.1 Step 1: Power On Your Vehicle

Make sure your vehicle's ignition is on so that the inLINK NGX system has power. You should see indicator lights on the inLINK device if it's properly powered.

2.2 Step 2: Connect to the WiFi Network

1. On your smartphone or tablet, open your WiFi settings
2. Look for a network named “**inLINK NGX**” or similar
3. Tap on this network to connect
4. When prompted for a password, enter: 12345678
5. Wait for your device to confirm the connection

Note: This is a direct connection to your inLINK system, not your home internet. Your device will notify you that there's no internet connection—this is normal and expected.

2.3 Step 3: Open the Web Interface

1. Open your web browser (Safari, Chrome, Firefox, etc.)
2. In the address bar, type: 192.168.4.1
3. Press Enter/Go
4. The inLINK NGX interface should load automatically

Tip: On Apple devices (Safari) or Android devices (Chrome) you can add inLINK NGX to your home screen by tapping the share button and selecting "Add to Home Screen". You can now access it from your home screen where it will act like a native app.

3 First-Time Setup

When you first access inLINK NGX, you'll be guided through a simple setup process. This only needs to be done once.

3.1 Step 1: Welcome Screen

Read the welcome message and tap **Next** to continue.

3.2 Step 2: Engine Configuration

Choose your vehicle's engine configuration:

- **Front Engine:** Select this if your engine is mounted in the front (most common)
- **Rear Engine:** Select this if your engine is mounted in the rear

This setting helps the system create appropriate default controls for your vehicle.

3.3 Step 3: Device Configuration

Select which devices are installed in your vehicle. Check the boxes next to the devices you have:

PowerCell Devices (High-power switching modules):

- Front PowerCell
- Rear PowerCell

InMotion Devices (Motor control modules):

- Driver Front InMotion
- Passenger Front InMotion
- Driver Rear InMotion
- Passenger Rear InMotion

Not sure which devices you have? Check with Infinitybox LLC or leave all boxes checked—the system will work with whatever is actually installed.

3.4 Step 4: Security Configuration

Set a new WiFi password to secure your inLINK system:

- Enter a password between 8 and 20 characters
- Choose something memorable but secure
- Write it down in a safe place—you'll need it every time you connect.

Important: After completing setup, the system will restart with your new password. You'll need to reconnect to the WiFi network using your new password.

3.5 Step 5: Review and Complete

Review all your settings to make sure everything looks correct. If you need to change something, use the **Previous** button to go back. When you're ready, tap **Complete Setup**.

The system will configure itself and restart. This may take 30-60 seconds. It may appear to start at the beginning of the setup process again, but it will then redirect you to the main interface.

4 Understanding the Interface

4.1 Navigation Overview

The inLINK NGX interface is organized into several main sections:

- **Dashboard:** Your customizable home screen with quick-access controls
- **Engine Controls:** Dedicated controls for engine-related systems
- **Lighting System:** Control all your vehicle's lights
- **Climate Control:** Temperature and fan controls
- **Windows:** Window operation controls
- **Settings:** System configuration and preferences

On Desktop/Tablet: Use the left sidebar to navigate between sections.

On Mobile: Use the bottom navigation bar to switch between sections.

4.2 Dashboard Widgets

The Dashboard is made up of **widgets**—individual control buttons that operate different vehicle functions. There are several types of widgets:

4.2.1 Toggle Widgets

These control on/off functions like lights or accessories.

- **Tap once** to turn on
- **Tap again** to turn off
- The widget color changes to show the current state
- Examples: Headlights and Interior Lights

4.2.2 PWM Slider Widgets

These control variable-speed functions like fans or dimmable lights.

- **Tap the power button** to turn on/off
- **Slide the bar** left/right to adjust speed or brightness (0-100%)
- Examples: Engine Fan, Cabin Lighting, Pump Speed
- **This widget type is currently in BETA and may not work as expected.**

4.2.3 Momentary Widgets

These are momentary controls that activate only while you're pressing them.

- **Press and hold** to activate
- **Release** to deactivate
- Examples: Starter Button, Lock/Unlock Button

4.2.4 Static PWM Widgets

These turn on at a preset power level.

- **Tap once** to turn on at the configured power level
- **Tap again** to turn off
- Examples: Work Lights (at 80% brightness), Step Lights

5 Basic Operations

5.1 Controlling a Widget

1. Navigate to the Dashboard or appropriate section
2. Locate the widget for the function you want to control
3. Tap the widget to activate it (see widget types above)
4. Watch for the visual feedback—the widget will change color or show status
5. Tap again (or release) to deactivate, depending on widget type

5.2 Customizing Your Dashboard

You can rearrange, resize, and customize your widgets to create the perfect layout.

5.2.1 Entering Edit Mode

1. Go to the Settings, System, and click the **Edit Widgets** button
2. It will redirect you back to the Dashboard, and will automatically enter Edit Mode. **Note:** This feature is currently in BETA and may not work as expected, if dashboard does not automatically redirect, please navigate back to 192.168.4.1 in your browser, or if using it from your home screen, close and reopen the app.
3. Tap done to exit Edit Mode

5.2.2 Moving Widgets

1. While in Edit Mode, press and hold on any widget
2. Drag it to your desired location
3. Release to place it
4. The other widgets will automatically adjust

5.2.3 Resizing Widgets

1. In Edit Mode, look for the resize handles (corners/edges of widgets)
2. Drag the handles to make the widget larger or smaller
3. Release when you're happy with the size

5.2.4 Editing Widget Settings

1. In Edit Mode, tap on the widget itself
2. A configuration screen will appear
3. Change the name, icon, or other settings as desired
4. Tap **Save** when done

5.2.5 Deleting a Widget

1. In Edit Mode, tap the widget you want to remove
2. In the configuration screen, tap **Delete Widget**
3. Confirm the deletion

5.2.6 Adding a New Widget

1. In Edit Mode, tap the **+** button in the top-right
2. Select the device and output you want to control
3. Choose the widget type (Toggle, Slider, Track, etc.)
4. Give it a name and icon
5. Tap **Save**
6. The new widget will appear on your dashboard

5.2.7 Widget Configuration Options

When creating or editing a widget, the following options are available:

- **Name:** A label for the widget (up to 31 characters)
- **Icon:** Choose from 16+ built-in icons (light, engine, lock, power, etc.)
- **Behavior:** Toggle (on/off) or Momentary (hold to activate)
- **Device:** Which PowerCell or InMotion module to control
- **Output:** Which specific output on the device (e.g., Output 1–10 for PowerCell, Relay or MOSFET for InMotion)
- **Personality:** How the output behaves:
 - *Track* — Instant on/off
 - *Soft Start* — Gradual ramp-up
 - *PWM* — Variable power level (0–100%)
- **Multi-Output:** A single widget can control up to 8 outputs simultaneously across different devices
- **Auto-Off Timer:** Automatically turn off the widget after a set duration (0–10 seconds)
- **Express Mode** (InMotion only): Holds the relay until the motor's current limit is reached
- **Saved Templates:** You can also choose from default or previously saved widget templates when adding a new widget

5.2.8 Exiting Edit Mode

When you're finished customizing, tap the **Done** button to return to normal operation. All your changes are automatically saved.

5.3 Climate Control

The Climate Control section provides dedicated controls for temperature and airflow.

1. Tap **Climate Control** in the navigation menu
2. Use the temperature controls to adjust heat or cooling
3. Adjust fan speed using the fan controls
4. Select airflow direction (floor, vents, defrost)
5. All changes take effect immediately

5.4 Windows

Control your vehicle's windows from the Windows section.

1. Tap **Windows** in the navigation menu
2. Tap and hold the UP button to raise a window
3. Tap and hold the DOWN button to lower a window
4. Release the button when the window reaches the desired position

Safety Note: Always ensure no one is in the path of closing windows.

6 Settings and Customization

6.1 Accessing Settings

Tap the **Settings** icon in the navigation menu to access system settings.

6.2 Appearance Settings

Customize how inLINK NGX looks on your device:

- **Color Theme:** Switch between Light and Dark modes
- **Accent Color:** Choose from preset colors or pick your own custom color
- **Background Style:** Select from several background options
- **Interface Scale:** Adjust the size of text and buttons (75%-125%)

6.3 Device Configuration

You can update your device configuration after the initial setup if modules are added or removed from your vehicle:

1. Go to Settings > Devices
2. Check or uncheck PowerCell and InMotion modules as needed
3. Tap **Save** to apply changes

6.4 Authentication Settings

6.4.1 Key Fobs

Configure key fobs for secure vehicle access:

1. Go to Settings > Authentication > Key Fobs
2. Tap **Add Key Fob** to pair a new remote
3. Follow the on-screen pairing instructions
4. Give the key fob a name (e.g., “Driver Key”, “Spare Key”)
5. Tap **Save**
6. **Note:** The Key Fobs section is currently in BETA and may not work as expected. The provided key fobs are paired to the system, and will work as expected. You may not be able to properly add a new key fob.

6.4.2 Bluetooth Proximity

inLINK NGX can use Bluetooth to automatically unlock your vehicle when you approach with a paired phone.

Pairing a Device:

1. Go to Settings > Authentication > Bluetooth
2. Tap **Enable Pairing**
3. On your phone’s Bluetooth settings, look for “**inLINK Secure**” and connect
4. Once paired, give the device a name (e.g., “My iPhone”)
5. Up to 3 devices can be paired at a time

Proximity Calibration:

For the best auto-unlock experience, calibrate the proximity detection for your vehicle:

1. Go to Settings > Authentication > Bluetooth
2. Tap **Start Calibration**
3. Stand at the distance you’d like auto-unlock to activate (typically near the driver’s door)
4. Hold your phone steady for 30 seconds while the system calibrates
5. The calibration will complete automatically

Once calibrated, the system will automatically unlock when your paired phone comes within range and lock when you walk away. If you lock the vehicle manually with a key fob, Bluetooth auto-unlock will be temporarily disabled until you manually unlock.

Managing Devices:

- View paired devices and their signal strength in the Bluetooth settings
- Rename or remove individual devices
- Use **Clear All Devices** to unpair everything and start fresh
- Use **Reset Calibration** if proximity detection seems inaccurate

6.5 System Information

View important system information:

- Software version number
- Connection status
- Device information

6.6 System Update

You can update your inLINK NGX firmware and web interface directly from the device:

1. Download the latest update file (**inLINK-update-*.zip**) from the releases page found here
2. Go to Settings > System > System Update
3. Tap **Choose File** and select the downloaded **.zip** file
4. Tap **Upload Update**
5. A progress bar will show the upload status—do not close the browser or disconnect during this process
6. The system will install the update and reboot automatically
7. Reconnect to the WiFi network after the reboot completes

Important: Do not power off the vehicle or disconnect from WiFi during an update. The update typically takes 1–2 minutes. If an update fails, the system will automatically roll back to the previous working version.

6.7 Changing Your WiFi Password

To change the password for connecting to inLINK NGX:

1. Go to Settings > System > WiFi Configuration
2. Tap **Change Password**
3. Enter your new password (8-20 characters)
4. Tap **Save**
5. The WiFi network will restart
6. Reconnect using your new password

Important: Make sure to remember your new password! If you forget it, you'll need to reset the system.

7 Tips for Best Experience

7.1 Connection Tips

- Stay within 30 feet (10 meters) of your vehicle for the best WiFi signal
- If the connection is slow, try moving closer to the vehicle
- Avoid using inLINK NGX when other WiFi networks are creating interference
- Keep your device's browser up to date for best performance

7.2 Battery Conservation

- Bookmark the inLINK address (192.168.4.1) for faster access
- Close the browser tab when not in use to save your device's battery
- The inLINK system itself will draw a decent amount of power, even when not in use. Please consider connecting your vehicle to a battery tender when not in use.

7.3 Organizing Your Dashboard

- Group related controls together (e.g., all lighting controls in one area)
- Place your most-used controls near the top for easy access
- Use larger widget sizes for frequently-used functions
- Use descriptive names for widgets so you can identify them at a glance
- Take advantage of multiple pages (Engine, Lights, etc.) to organize controls by category

8 Troubleshooting

8.1 Can't Find the WiFi Network

Problem: The "inLINK NGX" WiFi network doesn't appear.

Solutions:

- Check that the inLINK NGX has power (look for indicator lights)
- Move closer to your vehicle
- Turn your device's WiFi off and back on

8.2 Wrong Password Error

Problem: "Incorrect password" message when trying to connect.

Solutions:

- If this is your first time: use the default password 12345678

- If you changed the password: double-check you're entering it correctly
- Remember passwords are case-sensitive
- If you forgot your custom password, contact your Infinitybox LLC for a system reset

8.3 Can't Load the Interface

Problem: Browser shows an error or can't reach 192.168.4.1.

Solutions:

- Verify you're connected to the inLINK WiFi network (not your home WiFi)
- Type the address carefully: 192.168.4.1 (no "www" or "http")
- Navigate to 192.168.4.1 in your browser, or if using it from your home screen, close and reopen the app.
- Clear your browser's cache and try again
- Forget the network and reconnect
- Restart your device

8.4 Widgets Not Responding

Problem: Tapping widgets has no effect.

Solutions:

- Check the connection status indicator—you may be disconnected
- Refresh the page by using the browser refresh button, or if using it from your home screen, close and reopen the app.
- Verify the controlled device has power and is functioning
- Check that you're not in Edit Mode (exit Edit Mode if the Done button is visible)
- Reconnect to the WiFi network

8.5 Slow or Laggy Response

Problem: Interface is slow or widgets respond with delay.

Solutions:

- Move closer to your vehicle for better signal strength
- Close other apps running on your device
- Restart your browser
- Reconnect to the WiFi network

8.6 Lost Custom Settings

Problem: Widget layouts or settings disappeared.

Solutions:

- Settings are stored on the inLINK device and should persist
- If the system was reset or updated, you may need to reconfigure
- Contact Infinitybox LLC if settings are repeatedly lost

9 Safety and Warnings

9.1 Important Safety Information

Please read and follow these safety guidelines:

- **Awareness:** Always be aware of your surroundings when activating vehicle controls, especially motors, windows, and lights.
- **Children and Pets:** Ensure children and pets are clear of any moving parts (windows, doors, etc.) before activation.
- **Emergency Procedures:** Know where your vehicle's emergency shut-off switches are located. inLINK NGX does not replace safety systems.
- **Secure Your Connection:** Always use a strong WiFi password to prevent unauthorized access to your vehicle controls.
- **Maintenance:** Keep your inLINK system and vehicle electrical system properly maintained. Report any unusual behavior immediately.

9.2 Recommended Usage

- Use inLINK NGX from a safe, stationary position
- Verify controls are working as expected before regular use
- Keep emergency contact information for Infinitybox LLC readily available
- Disconnect from the inLINK network when you're done to prevent accidental activation

10 Getting Help

10.1 Additional Support

If you need additional help with your inLINK NGX system:

- **Installation Questions:** Contact Infinitybox for hardware-related questions
- **Software Updates:** Updates may be sent out periodically by our team. Check for any updates via email.

10.2 Before Contacting Support

When seeking help, please have the following information ready:

- System version (found in Settings > System)
- Description of the issue
- A detailed description of what you were doing when the problem occurred
- Any error messages you see
- Your vehicle information

Thank you for using inLINK NGX!

We hope this guide helps you get the most out of your vehicle control system.

Enjoy the convenience and control at your fingertips.