

AINAVI 6G+64G

AINAVI 11.5 inch Touchscreen Car Stereo Radio User Manual

Model: 6G+64G

For Dodge Ram 1500 2500 3500 (2013-2018) with Manual or Auto AC Climate Control

1. INTRODUCTION

Thank you for choosing the AINAVI 11.5 inch Touchscreen Car Stereo Radio. This advanced in-dash unit is designed to seamlessly integrate with your Dodge Ram 1500, 2500, or 3500 (2013-2018 models), offering a significant upgrade to your vehicle's infotainment system. Featuring Android 13 OS, a powerful Qualcomm 8-Core processor, 6GB RAM, and 64GB ROM, it provides a fast and smooth user experience.

The QLED screen, with its 2000x1200 resolution and G+G full lamination technology, ensures clear viewing from wide angles, even in daylight. Key features include wireless and wired CarPlay, Android Auto, built-in DSP for superior audio, GPS navigation, 5G WiFi, and Bluetooth 5.0. This manual will guide you through the installation, operation, and maintenance of your new car stereo.



Figure 1.1: AINAVI 11.5 inch Touchscreen Car Stereo Radio with its components.

2. SETUP AND INSTALLATION

The AINAVI car stereo is designed for a plug-and-play installation in compatible Dodge Ram models (2013-2018) with either manual or auto AC climate control. No modification to your car's original wiring is typically required.

2.1. Package Contents

Before beginning installation, verify that all components are present in your package:

- 1x Android Car Stereo (11.5 inch Head Unit)
- 1x Wiring Harness Power Cable (with CANbus Decoder)
- 1x Automatic Air Conditioning Panel (if applicable)
- 1x Manual Air Conditioning Panel (if applicable)

- 1x Radio Antenna Adaptor
- 1x GPS Antenna
- 2x USB Cables
- 1x RCA Cable
- 1x USB Microphone
- 1x Reversing Control Cable
- 1x 1080P Rear View Camera
- 1x Frame Removal Tool
- User Manual

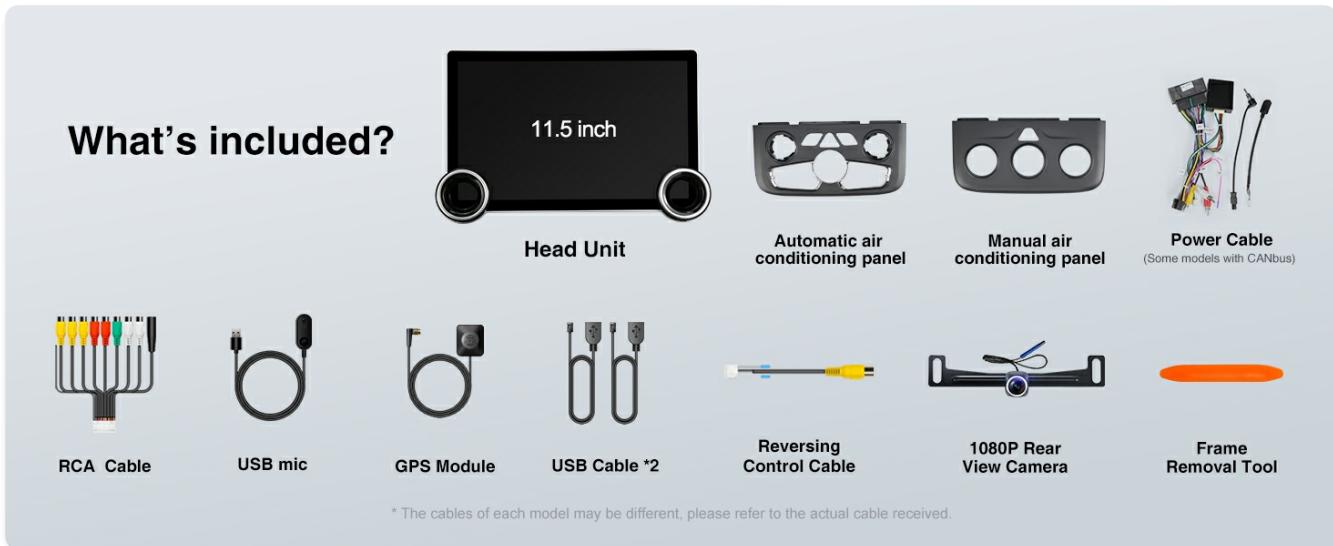


Figure 2.1: Included components in the package. Note: Cables may vary slightly by model.

2.2. Compatibility Check

This stereo is specifically designed for Dodge Ram 1500, 2500, and 3500 models manufactured between 2013 and 2018. It supports both manual and automatic AC climate control systems. Ensure your vehicle falls within this range for proper fitment and functionality.

Fits for Dodge Ram 1500 2500 3500 (2013-2018)



Figure 2.2: Visual comparison of the dashboard before and after installing the AINAVI stereo.

2.3. Installation Process

While designed for plug-and-play, professional installation is recommended. Refer to the detailed installation guide provided in the box for step-by-step instructions. Key steps include:

1. Carefully remove the original dash components using the provided frame removal tool.
2. Connect the wiring harness, CANbus decoder, and other necessary cables to the corresponding ports. Ensure all connections are secure.
3. Install the appropriate AC climate control panel (manual or auto) into the new dash kit.
4. Mount the 11.5-inch head unit into the dash opening.
5. Connect the GPS antenna and route the rearview camera cable if installing.
6. Secure all components and reassemble the dash.

For any installation difficulties, please refer to the 'Support' section of this manual for technical assistance.

3. OPERATING INSTRUCTIONS

This section details the primary functions and operations of your AINAVI car stereo.

3.1. Touchscreen Interface

The 11.5-inch QLED touchscreen provides a responsive and intuitive interface. Navigate through menus, select applications, and control functions with simple taps and swipes.



Figure 3.1: The high-definition 11.5-inch QLED touchscreen.

3.2. CarPlay & Android Auto

Enjoy seamless integration with your smartphone via built-in wireless and wired CarPlay (for iOS devices) and USB connection Android Auto (for Android devices). Access navigation, make calls, send/receive messages, and stream music directly from your phone while driving safely.

- **Wireless CarPlay:** Connect your iPhone wirelessly for a convenient experience.
- **Wired Android Auto:** Connect your Android phone via USB for Android Auto functionality.
- **Voice Commands:** Activate Siri or Google Assistant by saying “Hey Siri” or “Hey Google” for hands-free control.



Figure 3.2: Wireless CarPlay and Android Auto interface.

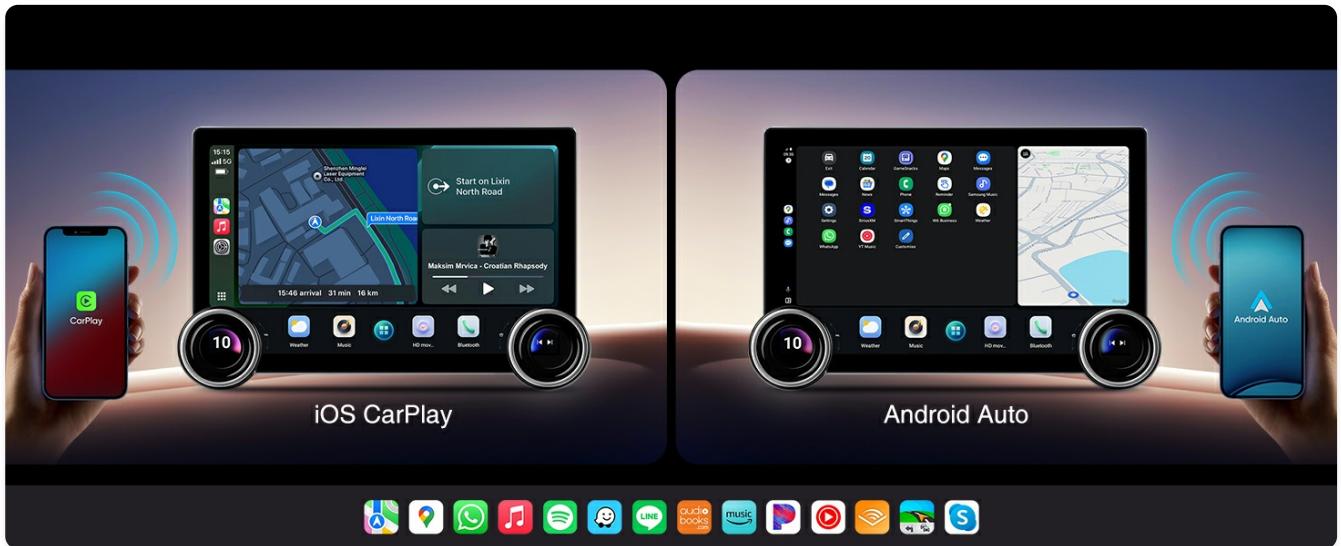


Figure 3.3: iOS CarPlay and Android Auto interfaces.

3.3. GPS Navigation

The built-in GPS navigation supports both online and offline maps. Connect to a network for real-time traffic information or download offline maps for navigation without an internet connection.



Figure 3.4: GPS Navigation interface with voice command options.

3.4. Connectivity (WiFi & Bluetooth)

The stereo features dual-band WiFi (2.4GHz & 5GHz) for high-speed internet access and Bluetooth 5.0 for seamless device connections.

- **5G WiFi Hotspot:** Connect to a mobile hotspot or home WiFi for internet access, app downloads, and online services.
- **Bluetooth 5.0:** Enable hands-free calls, stream music, and download your phonebook for convenient in-car communication and entertainment.

5G WiFi Hotspot & BT Connection

Enjoy in-car internet, music, and navigation via WiFi hotspot.

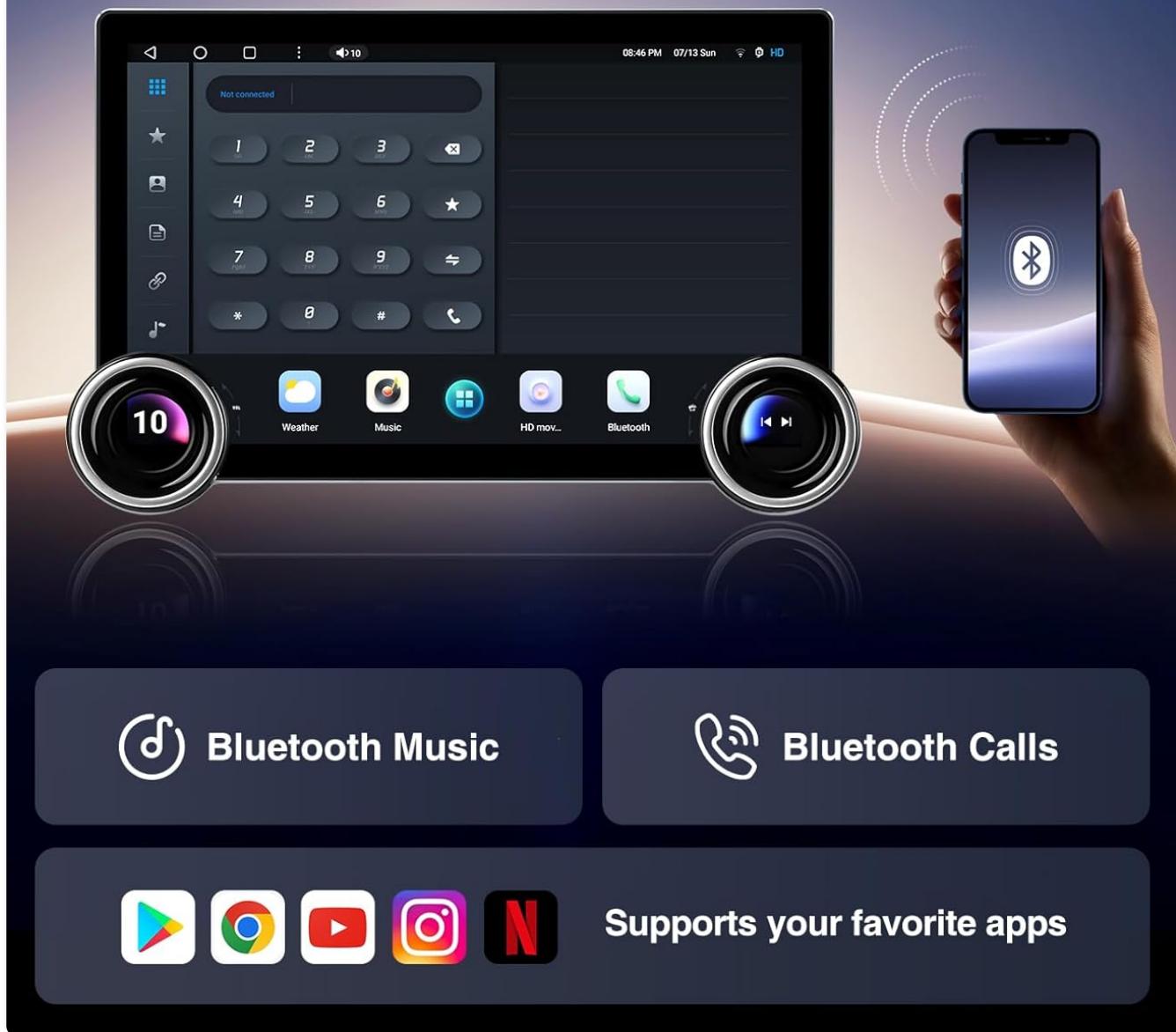


Figure 3.5: WiFi Hotspot and Bluetooth Connection interface.

Support Bluetooth Hands-Free Connection

Focus on driving, making driving safer.

Bluetooth Music

Bluetooth Calls

Sync Contacts



Figure 3.6: Support for Bluetooth Hands-Free Connection.

3.5. Audio Features (DSP & EQ)

The built-in Digital Sound Processor (DSP) with Time Correction and a 48-band Equalizer allows for precise audio customization, delivering a premium sound experience.

- **4*45W Amplifier:** Provides robust sound output for each channel.
- **Time Correction:** Digitally control the sound timing for each speaker to optimize the sound field position.
- **48-band EQ:** Fine-tune audio frequencies to match your preferences and vehicle acoustics.



Figure 3.7: Multi-band Audio Equalization interface.

3.6. Manual Knobs & Steering Wheel Control

The stereo features dual physical knobs for quick adjustments and supports your vehicle's original steering wheel controls for added convenience.

- **Left Knob:** Rotate to adjust volume (+/-), Press to Mute.
- **Right Knob:** Rotate for Previous/Next track, Press for Play/Pause.
- **Steering Wheel Control:** Retains most original steering wheel functions for safe operation.

Manual Knob Design



Left knob

Rotate: Volume + / -
Press: Mute

Right knob

Rotate: Previous / Next
Press: Play / Pause



Steering Wheel Control

Power	Mute	Previous	Next	Volume-	Volume+	Home
Play/Pause	Hang Up	Answer	SRC	Band	Back	Shuffle
Repeat	EQ	Navi	AUX	Music	Video	Talk

Figure 3.8: Manual Knob Design and Steering Wheel Control functions.

3.7. Radio Functions

Access your favorite radio stations with AM/FM/RDS support.



Figure 3.9: AM/FM/RDS Radio interface.

3.8. Advanced Display Features

Enhance your in-car experience with split-screen and screen mirroring capabilities.

- **Split Screen Function:** Run two applications simultaneously on the screen, such as navigation and music playback.
- **Screen Mirroring:** Mirror your smartphone's display directly onto the car stereo screen.



Figure 3.10: Split Screen and Screen Mirroring functions.

3.9. Rearview Camera

The included 1080P AHD rearview camera provides a clear, wide-angle view to assist with safer reversing and parking.

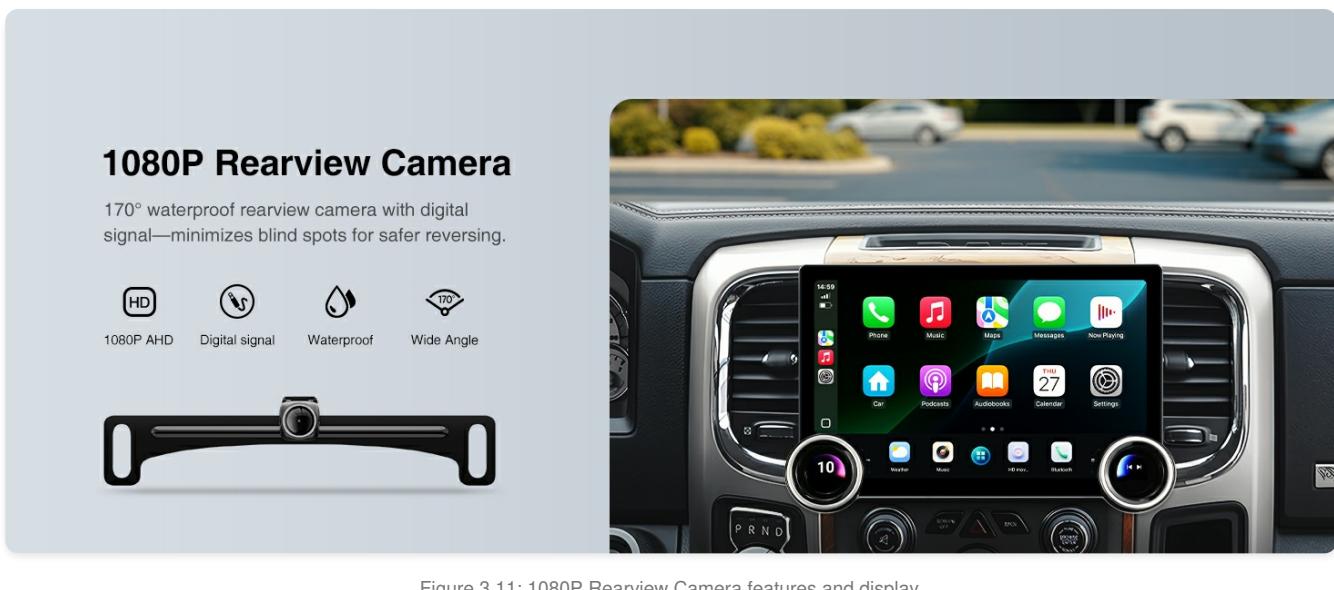


Figure 3.11: 1080P Rearview Camera features and display.

4. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your AINAVI car stereo.

4.1. Screen Cleaning

To clean the touchscreen, power off the unit. Use a soft, lint-free cloth (preferably microfiber) lightly dampened with water or a screen-specific cleaning solution. Avoid harsh chemicals, abrasive materials, or excessive moisture, as these can damage the screen.

4.2. Software Updates

Periodically check for software updates to ensure your system has the latest features, performance improvements, and bug fixes. Updates can typically be found via the system settings menu when connected to Wi-Fi, or through the manufacturer's official website. Follow the on-screen instructions carefully during any update process.

4.3. General Care

- Avoid exposing the unit to extreme temperatures or direct sunlight for prolonged periods.
- Do not attempt to disassemble the unit. Refer to qualified technicians for any repairs.
- Ensure proper ventilation around the unit to prevent overheating.

5. TROUBLESHOOTING

This section addresses common issues you might encounter. If the problem persists, please contact customer support.

Problem	Possible Cause	Solution
Unit does not power on.	Incorrect wiring; Blown fuse; Insufficient power supply.	Check all wiring connections. Verify vehicle's fuse box and the unit's fuse. Ensure stable 12V power supply.
No sound or poor sound quality.	Incorrect speaker wiring; DSP/EQ settings misconfigured; Volume too low.	Check speaker connections. Adjust DSP and EQ settings. Increase volume.
CarPlay/Android Auto not connecting.	Incorrect USB cable; Bluetooth/WiFi not enabled; Phone software issue.	Use a high-quality USB cable. Ensure Bluetooth and WiFi are enabled on both devices. Restart phone and stereo.
GPS signal weak or inaccurate.	GPS antenna obstructed or improperly placed.	Ensure GPS antenna has a clear view of the sky and is securely connected.
Knobs are glitchy or unresponsive.	Software issue; Loose connection.	Perform a system restart. Check connections to the knob assembly. Ensure latest software is installed.
Slow boot time or occasional lag.	Too many background apps; System overload.	Close unnecessary applications. Perform a system restart. Ensure sufficient free storage.

For more complex issues or persistent problems, please refer to the 'Support' section for technical assistance.

6. SPECIFICATIONS

Detailed technical specifications for the AINAVI 11.5 inch Touchscreen Car Stereo Radio (Model: 6G+64G).

Feature	Detail
Model Number	6G+64G
Operating System	Android 13 OS

Feature	Detail
Processor	Qualcomm 8 Core
RAM	6GB
Internal Storage	64GB
Display Size	11.5 Inches
Display Resolution	2000x1200 (2K HD Screen)
Display Technology	QLED, G+G Full Lamination, IPS Screen
Audio Output Mode	Surround Sound Stereo
Amplifier Output	Max. 4*45W
DSP	Built-in with Time Correction & 48-band EQ
Connectivity Technology	Bluetooth 5.0, USB, Wi-Fi (2.4Ghz & 5Ghz), Wired, Wireless
Car Integration	Wireless/Wired CarPlay, USB Android Auto
Navigation	Built-in GPS (supports online/offline maps)
Radio	AM/FM/RDS
Rear View Camera Input	Supports AHD 1080P (camera included)
Mounting Type	Dashboard Mount
Item Weight	4.75 pounds
Package Dimensions	13.11 x 11.1 x 5.59 inches

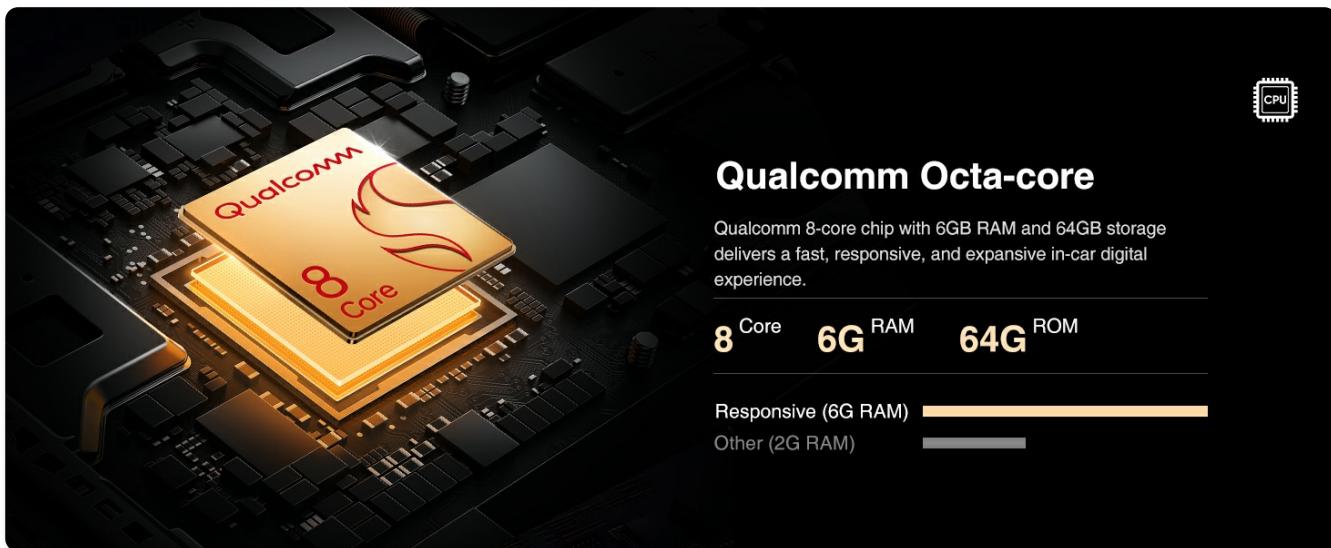


Figure 6.1: Qualcomm Octa-core processor details.

7. WARRANTY INFORMATION

Your AINAVI 11.5 inch Touchscreen Car Stereo Radio comes with a **12 Months Manufacturer Guarantee**. This warranty covers defects in materials and workmanship under normal use during the warranty period.

Please retain your proof of purchase for warranty claims. The warranty does not cover damage caused by improper installation, accident, misuse, abuse, neglect, unauthorized modification, or natural disasters.

8. CUSTOMER SUPPORT

For technical assistance, installation support, or any questions regarding your AINAVI car stereo, please contact our professional technical support team.

8.1. Contact Methods

- **Amazon Email:** Contact us directly via Amazon's messaging system. We aim to reply as soon as possible.
- **Hotline:** +1 (833) 858-5016
- **Working Hours:** 01:00 PM to 00:00 AM PST
- **Email:** info@ainavi.com



Figure 8.1: Our dedicated customer support team is ready to assist you.



Figure 8.2: Customer support contact details.