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JOYING JY-UZS80N8

JOYING JY-UZS80N8 Single DIN Car Stereo User Manual

8-inch Detachable Touchscreen Head Unit with Apple CarPlay & Android Auto

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1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your JOYING JY-UZS80N8 Single DIN Car Stereo. This advanced head unit features an 8-inch detachable touchscreen, integrated Apple CarPlay and Android Auto, a 48-band equalizer, AM/FM radio, and subwoofer output, designed to enhance your in-car audio and navigation experience.

Please read this manual thoroughly before using the device to ensure proper functionality and safety.

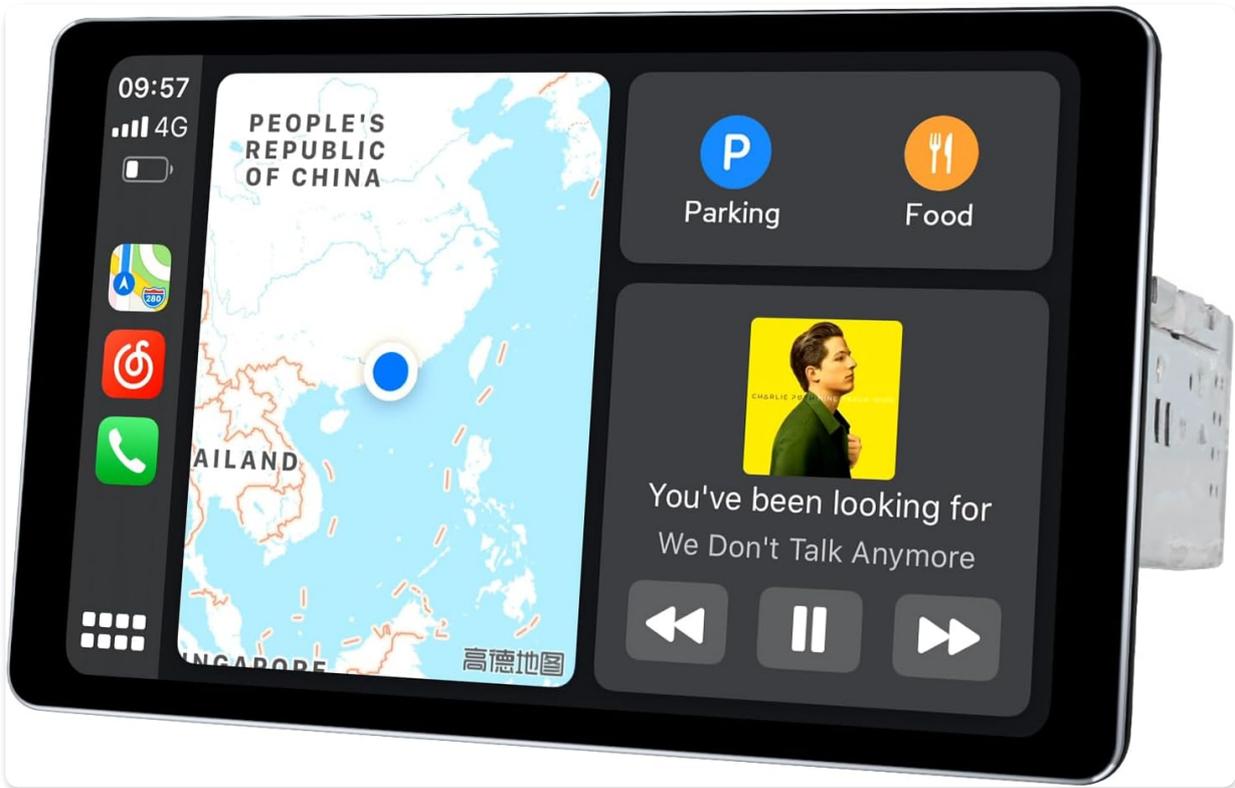


Image 1.1: The JOYING JY-UZS80N8 car stereo displaying the Apple CarPlay interface with navigation and media playback.

2. PRODUCT COMPONENTS AND OVERVIEW

2.1 What's in the Box

The package includes the following items:

- 8" Car Radio Unit x 1
- Universal ISO Harness x 1
- 4G Antenna x 2
- USB Cable x 2
- External Microphone x 1
- GPS Antenna x 1
- User Manual x 1
- Installation Kit x 1



Image 2.1: All included accessories and the main unit of the JOYING JY-UZS80N8 car stereo.

2.2 Key Features

- **8-inch Detachable Touchscreen:** High-resolution 1280x800 display with a full-fit design for clear visuals and wide viewing angles.
- **Wireless Apple CarPlay & Android Auto:** Seamless smartphone integration for navigation, calls, and media.
- **Built-in 4G Module:** Supports SIM card for internet access (data only, no calls/SMS).
- **Advanced Audio Processing:** 48-band EQ, built-in DSP, optical fiber and coaxial digital output for superior sound quality.
- **Fast Boot:** Quick startup in approximately 2 seconds after the initial boot.
- **GPS Navigation:** Precise positioning with included GPS antenna and offline map support.
- **HDMI Output:** Supports external display for passenger entertainment.

3. SETUP AND INSTALLATION

3.1 Pre-Installation Notes

- Installation may require an additional installation frame kit, special ISO harness, amplifier adapter, or CANbus decoder depending on your vehicle model.
- The unit does not support factory car GPS antenna, backup camera, Bluetooth, USB, or microphone.
- Only JOYING accessories (DAB+ digital radio adapter, DVR, OBDII scanner, reverse camera, TPMS, steering wheel controller) are supported and must be ordered separately.

3.2 Wiring Connections

Refer to the wiring diagram for proper connection of power, speakers, antennas, and other peripherals. Ensure all connections are secure before powering on the unit.

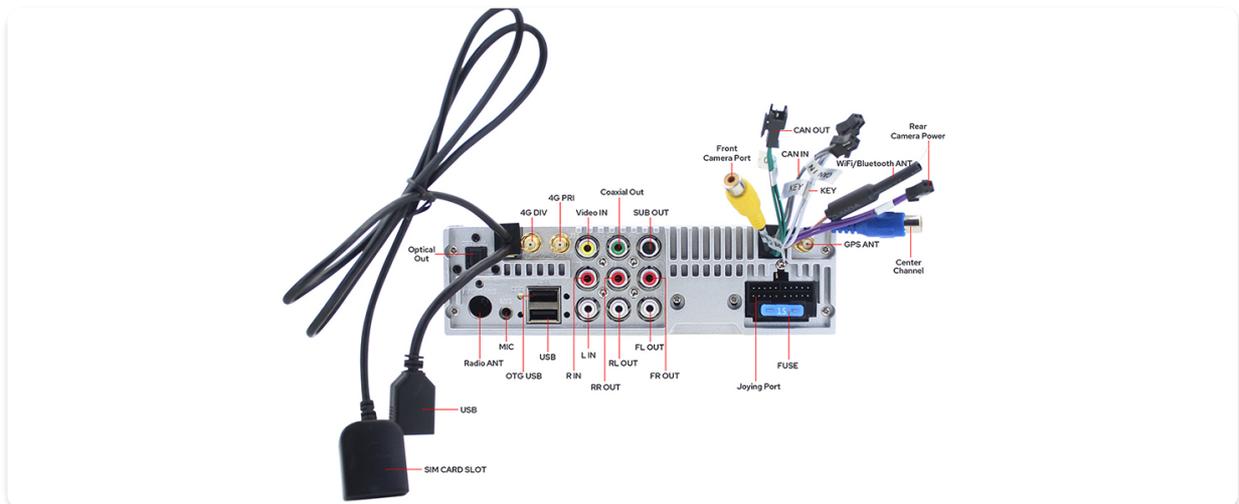


Image 3.1: Detailed view of the rear panel connections for the JOYING JY-UZS80N8 head unit.

3.3 Detachable Screen Adjustment

The 8-inch screen is detachable and can be adjusted vertically by 2.5cm up or down from its middle position, in 0.7cm increments, to suit your installation requirements.

Removable Screen



Image 3.2: Illustration of the detachable screen's vertical adjustment capability.

4. OPERATING INSTRUCTIONS

4.1 User Interface (UI)

The unit features a deep-optimized user interface tailored for in-car use. It allows for customization of widgets, display of current applications, and split-screen functionality.

Deep-optimized UI

The new personalized user interface is specially customized according to the Qualcomm Snapdragon chip which is more in line with the usage habits of car driving.



Image 4.1: Overview of the personalized user interface with key features highlighted.

4.2 Gesture Control

Control the screen using intuitive two-finger gestures:

- **Slide Up:** Performs a specific action (configurable).
- **Slide Down:** Performs a specific action (configurable).
- **Slide Left:** Performs a specific action (configurable).
- **Slide Right:** Performs a specific action (configurable).

4.3 Floating Shortcut Key

Activate the floating shortcut key in the settings for easy access to frequently used functions while driving.

Day & Night Mode

The daytime mode is bright enough to see clearly even in the sun, the night mode will not be dazzling, making your eyes more comfortable.



 Daytime Mode



 Night Mode

New Gesture Control

Control the screen via gesture learning by 2 fingers: "slide up", "slide down", "slide left", and "slide right". Very friendly to those who are driving.



Floating Shortcut Key

Open the floating shortcut key in the setting, it will pop up on the left side, easy to control the screen while driving.



Image 4.2: Visual representation of Day & Night Mode, Gesture Control, and Floating Shortcut Key.

5. CONNECTIVITY

5.1 Wireless Apple CarPlay & Android Auto

Connect your smartphone via USB cable or Bluetooth to access Apple CarPlay or Android Auto. This allows you to use navigation, make calls, send messages, and listen to music directly from your phone's apps on the car stereo's display.

Car-smartphone Connectivity

Wireless CarPlay & Android Auto

Connect your mobile phone with the car radio via USB cable or Bluetooth to share the phone's apps on a bigger screen, it is an easier way to get access to navigation, make phone calls, and listen to music.



(Built-in Android Auto and CarPlay module, no need for any extra device or dongle)

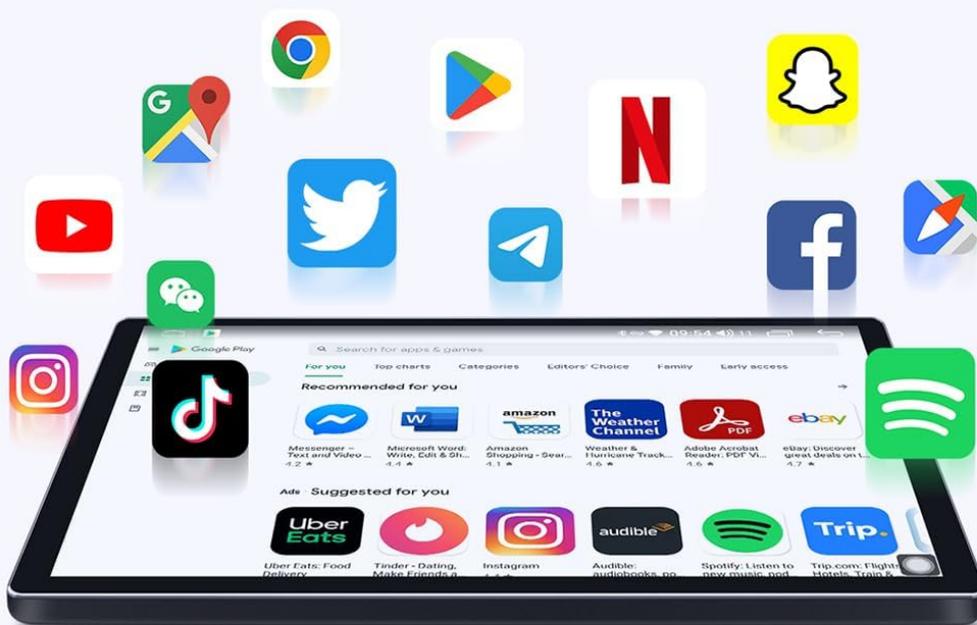
Image 5.1: Illustration of smartphone connectivity with Wireless CarPlay and Android Auto.

5.2 4G Module

Insert a SIM card into the dedicated slot for direct internet access. The built-in 4G module supports FDD-LTE and TDD-LTE bands. Note that this feature is for internet data only and does not support phone calls or SMS messages.

WIFI & 4G MODULE

Using Qualcomm's own baseband, the internet speed is faster, the network connection is more stable, and the signal range is wider.



Inserting 4G SIM card to the radio for Internet access directly.
(Support Internet access and not support telephone calls)



Image 5.2: Instructions for inserting a 4G SIM card into the module.

5.3 GPS Navigation

The unit includes precise GPS engines and an antenna for accurate positioning and faster real-time navigation. Offline maps can be downloaded and saved to the car stereo for use in areas without internet connectivity.

6. AUDIO SETTINGS

6.1 Built-in DSP and EQ

The JY-UZS80N8 features a built-in Digital Signal Processor (DSP) and a 48-band equalizer with 20 preset sound effects. This allows for high-precision digital processing of audio signals, including reverberation, delay, distortion, and filtering, to achieve optimal sound quality.

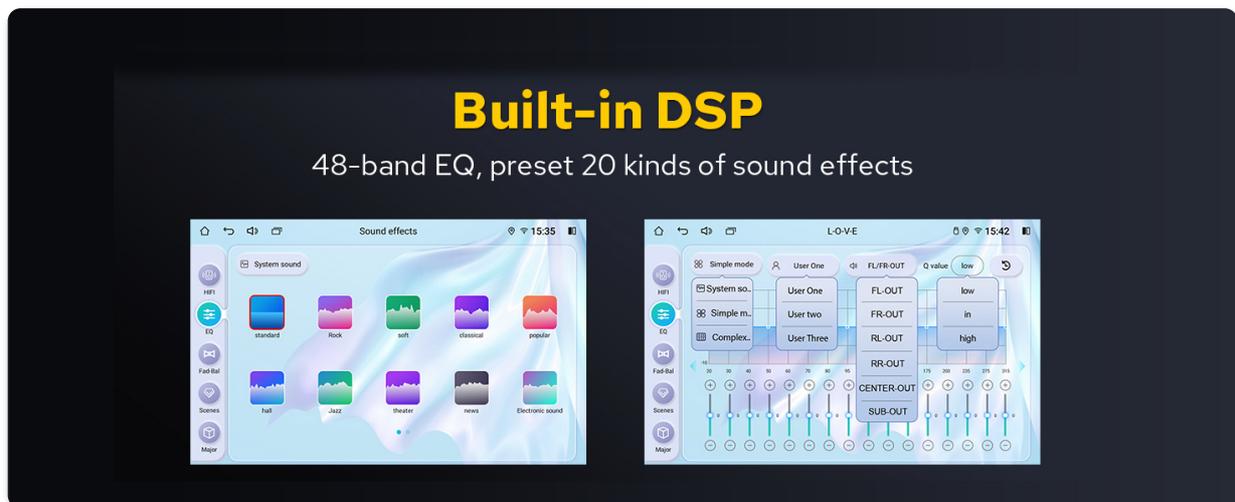


Image 6.1: DSP and EQ interface for sound customization.

6.2 Subwoofer and DTS Scenes

The subwoofer output can be amplified and adjusted independently. The unit also supports DTS 5.1 panoramic surround sound effects and sound field correction for an immersive audio experience.

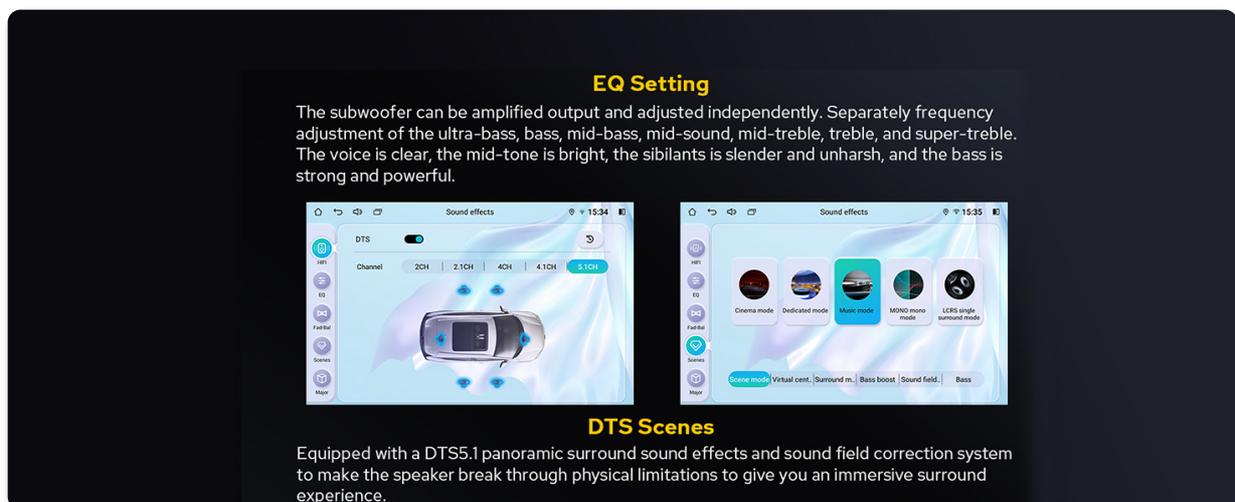


Image 6.2: EQ settings for subwoofer and DTS sound scene options.

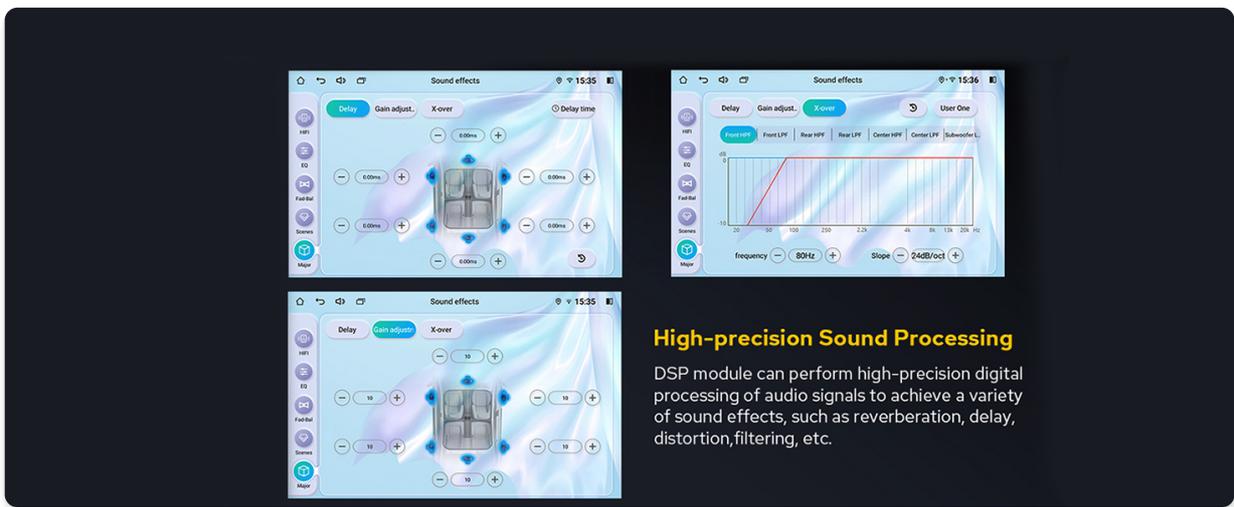


Image 6.3: High-precision sound processing options.

7. DISPLAY FEATURES

7.1 Ultra-thin Full-fit Screen

The 8-inch display features ultra-thin bezels and full-fit screen technology, which reduces reflection and enhances brightness and clarity. The screen offers a wide viewing angle, ensuring consistent color and image quality from various perspectives.



Image 7.1: The ultra-thin full-fit screen design.

The full-fit screen technology eliminates the gap in the screen and greatly weakens the mirror reflection light, which makes the screen clearer and transparent. It looks like a piece of obsidian when the screen is off.



Looking at the screen from four directions, if the color of the display has almost no change, that is the wide view angle.

7.2 Day & Night Mode

The display automatically adjusts between a bright daytime mode for clear visibility in sunlight and a softer night mode to reduce glare and eye strain during nighttime driving.

7.3 HDMI Output

The unit provides an HDMI output for connecting to external displays, such as headrest monitors, allowing passengers to watch videos while the main screen is used for navigation or other functions. Note that a straight-head HDMI cable is not supported due to space constraints; an L-shaped or angled HDMI cable is required.



Image 7.3: HDMI output displaying content.



Projection Screen Display:
Support to play movies for passengers in the headrest, and navigate for drivers on the main screen. Everyone can enjoy it.



On-screen Display:
Displays the same 1080P clear picture, zero delays without stuttering.



Due to the space design inside the chassis, the HDMI cable with a straight head is not supported. (HDMI cable is not included)

Image 7.4: HDMI output in use for passenger screens and compatible HDMI cable types.

8. CAMERA INTEGRATION

8.1 AR Camera Support

The unit supports Augmented Reality (AR) cameras, allowing you to switch between front and rear camera views while driving to observe your surroundings. For optimal performance, it is recommended to use JOYING's AR camera, which is optimized for compatibility and provides clearer, more stable images.

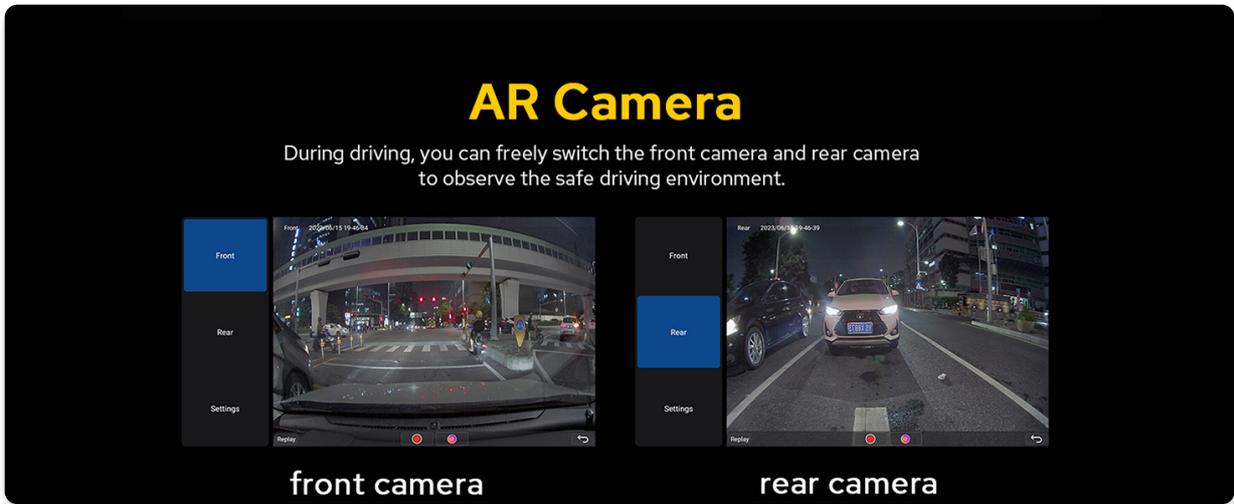


Image 8.1: Front and rear camera views from the AR camera.



Image 8.2: Recommended AR camera compatibility.

9. SPECIFICATIONS

9.1 General Parameters

Feature	Detail
Brand	JOYING
Model Number	JY-UZS80N8
Item Weight	4.29 pounds
Package Dimensions	9.25 x 6.5 x 5.12 inches
Date First Available	July 6, 2023

9.2 Technical Parameters

Category	Parameter	Detail
	CPU	QCM6125 Octa Core 64bit ARM (4x A73@2.0GHz, 4x A53@1.8GHz)

Processor	GPU	Adreno™ 610@950 MHz
	Manufacturing Technology	11 nanometers
Memory	Memory Type	LPDDR4X
	RAM & ROM	8GB + 128GB
Multimedia Display	Screen Resolution	1280x800P
	Screen Density	273 ppi
	Refresh Rate	60 Hz
	DPI	160 dpi (hdpi)
Network & Connection	Positioning System	GPS / GLONASS / Beidou
	Network	4G/3G/Bluetooth OBD (5.0)
	Wi-Fi	Wi-Fi 5 (Up to 600 Mbps DL 802.11ac Wi-Fi X12 LTE modem)
Audio Output	Audio Output Mode	Stereo
	Surround Sound	5.1 Channel Configuration
	Connector Type	Coaxial, Optical
	Special Feature	Built-In Bluetooth, Touchscreen
Video	Video Encoding	Supports AVI, MKV, MP4, WMV, RMVB, MPG
	Total HDMI Ports	1

Parameter

<p>CPU QCM6125 Octa Core 64bit ARM 4xA73@2.0GHz 4xA53@1.8GHz</p> <p>Manufacturing Technology 11 nanometers</p>	<p>GPU Adreno™ 610@950 MHz</p> <p>Memory Type LPDDR4X</p> <p>RAM & ROM 8GB+128GB</p>
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Image 9.1: Core technical parameters.

Multimedia Parameter

Screen Resolution

1280×800P

Screen Density

273 ppi

Refresh Rate

60 Hz

DPI

160 dpi(hdpi)

Network & Connection

Positioning System

GPS / GLONASS / Beidou

Network

4G/3G/Bluetooth OBD(5.0)

WiFi-5

Up to 600 Mbps DL 802.11ac Wi-Fi X12 LTE modem

Image 9.2: Multimedia and network parameters.

Precision 4-layer Motherboard Structure Display

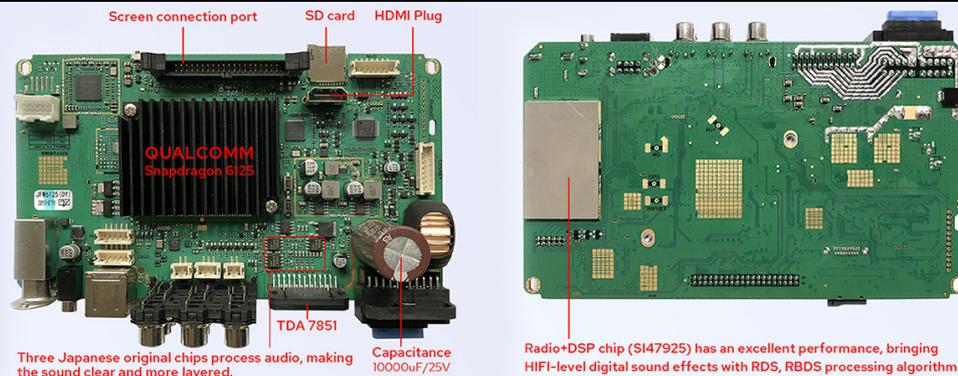


Image 9.3: Internal motherboard structure.

10. TROUBLESHOOTING

If you encounter issues with your JOYING JY-UZS80N8 car stereo, consider the following general troubleshooting steps:

- **No Power:** Check all power connections and fuses. Ensure the vehicle's ignition is on.
- **No Sound:** Verify speaker connections, volume levels, and audio source selection. Check EQ and DSP settings.
- **Touchscreen Unresponsive:** Try restarting the unit. Ensure the screen is clean and free of debris.
- **GPS Signal Issues:** Ensure the GPS antenna is properly installed and has a clear view of the sky.
- **Connectivity Problems (CarPlay/Android Auto/4G/WiFi):** Check cable connections for wired CarPlay/Android Auto. For wireless connections, ensure Bluetooth/WiFi is enabled on both devices and the unit. Verify SIM card insertion and data plan for 4G.
- **System Lag/Freezing:** Close unnecessary applications. Perform a system reset if the issue persists.

For more specific issues or persistent problems, please refer to the online support resources or contact JOYING customer service.

11. MAINTENANCE

To ensure the longevity and optimal performance of your JOYING JY-UZS80N8 car stereo, follow these maintenance guidelines:

- **Cleaning the Screen:** Use a soft, lint-free cloth to gently wipe the touchscreen. For stubborn smudges, slightly dampen the cloth with water or a screen-safe cleaner. Avoid harsh chemicals or abrasive materials.
- **General Cleaning:** Keep the unit and surrounding area free from dust and debris. Use a soft brush or compressed air to clean vents and ports.
- **Software Updates:** Periodically check for and install available software updates to ensure the unit has the latest features and bug fixes.
- **Temperature Control:** Avoid exposing the unit to extreme temperatures for extended periods.

12. WARRANTY AND CUSTOMER SUPPORT

For warranty information, technical assistance, or customer support, please refer to the warranty card included with your product or visit the official JOYING website. You can also contact JOYING customer service directly through their provided channels for any inquiries regarding your JY-UZS80N8 car stereo. Please have your product model number (JY-UZS80N8) and purchase details ready when contacting support.