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ATOTO S8G2A79UN

ATOTO S8 Ultra New 7" QLED Double Din Android Car Stereo Instruction Manual

Model: S8G2A79UN

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your ATOTO S8 Ultra New 7" QLED Double Din Android Car Stereo, Model S8G2A79UN. This advanced car stereo features an 8-Core processor, 6GB RAM, 128GB ROM, QLED display, wireless CarPlay & Android Auto, 4G LTE/WiFi connectivity, dual Bluetooth with aptX HD, GPS tracking, and AI Chat capabilities.



Image 1.1: The ATOTO S8 Ultra New 7" QLED Double Din Android Car Stereo, showcasing its main interface with various app icons.

2. Product Overview and Key Features

The ATOTO S8 Ultra New (Gen3) is designed to enhance your in-car experience with its powerful hardware and versatile software. Key features include:

- **High Performance:** Upgraded S8 Gen3 with 6GB RAM + 128GB ROM, 12nm SoC, and ARM Cortex Octa-Core processor for fast and smooth operation.
- **Superior Display:** 7-inch 1024x600 QLED high-brightness screen with excellent visuals and wide viewing angles.
- **Seamless Connectivity:** Multiple internet access options including Wi-Fi, Bluetooth tethering, USB tethering, and a built-in 4G LTE module.
- **Dual Bluetooth:** BT1 with QCM aptX & aptXHD for high-quality audio and calls, and BT2 for internet access, OBD2 scanning, and connecting other Bluetooth devices.
- **Smartphone Integration:** Supports wireless CarPlay and Android Auto for seamless smartphone connectivity.
- **Advanced Audio:** Built-in Digital Signal Processor (DSP) with 9 EQ presets and 32 adjustable frequency bands, plus a powerful preamp (4x49W peak, 4x29W RMS).

- **Camera Support:** Connects to specific front (AC-FCR04W) and rear (AC-RCR04W) cameras for recording and Live Rear View functionality.
- **Exclusive ATOTO Apps:** Includes DriveChat (AI-powered by ChatGPT), TrackHU (GPS location tracker), Bluetooth OBD diagnostic app, and Bluetooth ambient light app.

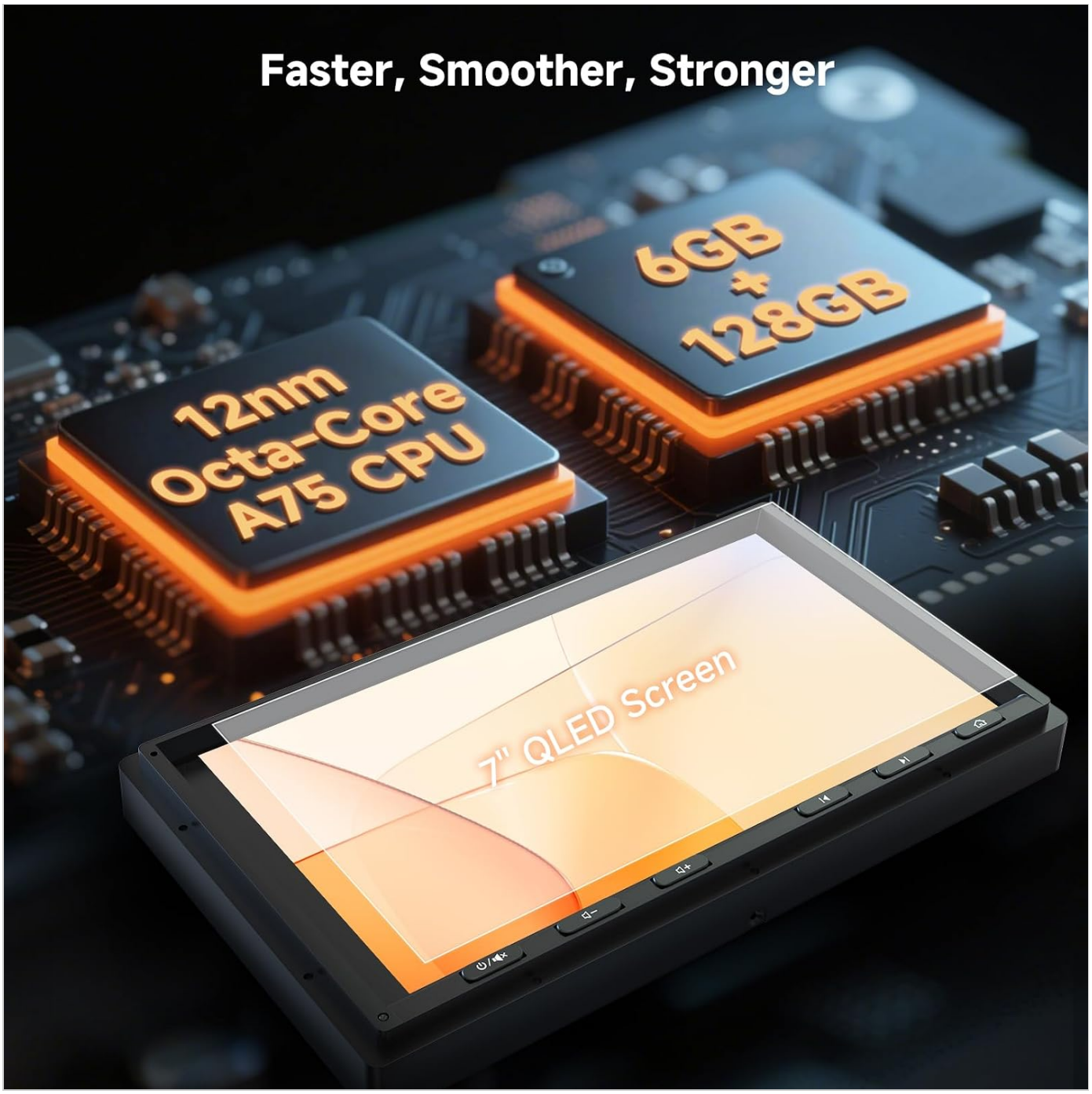


Image 2.1: Illustration of the ATOTO S8 Ultra New's internal components, highlighting the 12nm Octa-Core A75 CPU, 6GB RAM, 128GB storage, and the 7-inch QLED screen for faster, smoother, and stronger performance.

3. Installation and Setup

3.1. Package Contents

Before installation, verify that all components are present:

- 1 x ATOTO S8 Ultra New Car Stereo Receiver
- Power Cable

- Rear Camera Input Cable
- RCA Output Cable
- Audio Output Cable
- 4G LTE Antenna
- USB External Storage Cable
- USB Phone Link Cable
- GPS Antenna
- Screen Protector (2 pack)
- External Microphone
- Double-DIN Brackets
- Mounting Brackets
- Mounting Screws
- SIM Ejector Pin
- Online Resources Quick Guide
- Warranty Online Support Card
- Installation Frame



Image 3.1: Diagram showing the dimensions of the ATOTO S8 Ultra New head unit and a list of included accessories in the package.

3.2. Vehicle Fit and Dimensions

The ATOTO S8 Ultra New is a universal double-DIN car stereo. The panel measures 172mm x 97mm (7 inches) and includes an additional frame adapter to expand the size to 178mm x 101.5mm for compatibility with most double-DIN dash kits.

3.3. Wiring Diagram

Refer to the following diagram for proper wiring connections. Ensure all connections are secure before powering on the unit.

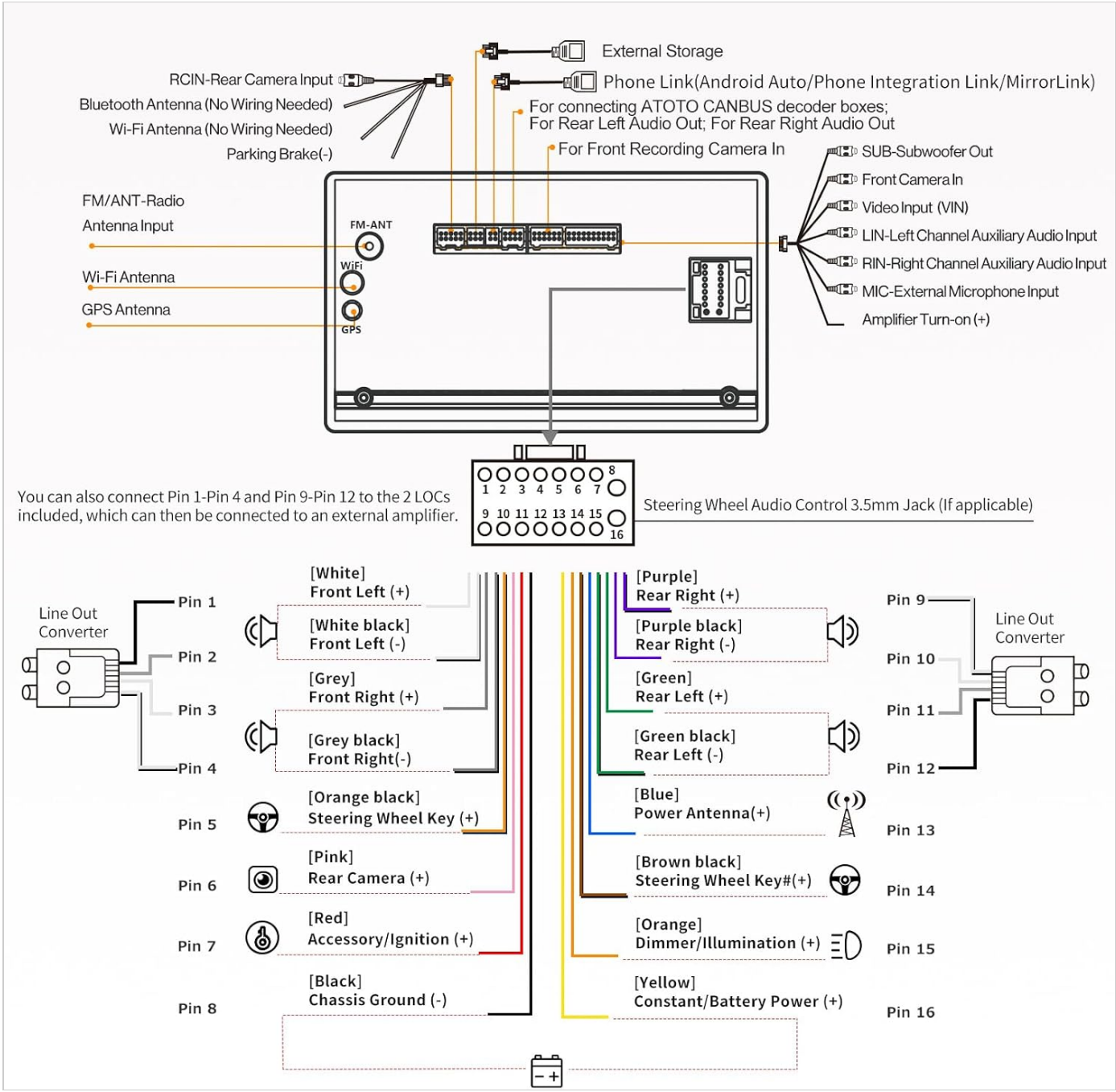


Image 3.2: Detailed wiring diagram for the ATOTO S8 Ultra New, illustrating connections for power, speakers, cameras, antennas, and other peripherals.

- **Power Connections:** Connect the yellow wire to constant 12V power, red to accessory/ignition, and black to chassis ground.
- **Speaker Outputs:** Connect the white, white/black, grey, grey/black, purple, purple/black, green, and green/black wires to your vehicle's speakers.
- **Antennas:** Connect the FM/AM radio antenna, Wi-Fi antenna, and GPS antenna to their respective ports.
- **Camera Inputs:** Connect the rearview camera input (RCIN) and front camera video input (FCAM) as needed.
- **RCA Outputs:** Use the 4-CH RCA Audio Out (2V) for connecting to external amplifiers and the separate Sub-woof Out (0.8V) for a subwoofer.
- **USB Interfaces:** Two USB interfaces are provided for data communication, external storage, phone mirroring, and phone integration.
- **4G SIM Slot:** Insert a Micro SIM card with a data plan into the dedicated slot for 4G LTE connectivity.

3.4. Initial Power-On and System Configuration

After successful wiring, turn on your vehicle's ignition. The S8 Ultra New will perform a fast system boot, typically accessing the system within 2 seconds. Follow the on-screen prompts for initial setup, including language selection and time zone.

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4. Operating Instructions

4.1. Internet Connectivity

The S8 Ultra New offers four methods for internet access:

- **Wi-Fi Hotspot:** Connect to your phone's 2.4GHz & 5GHz Wi-Fi hotspot.
- **Bluetooth Tethering:** Share your phone's data via Bluetooth. This method has lower power consumption for your phone.
- **USB Tethering:** Share phone data via a USB connection. This can help save or slightly increase your phone's battery level. Requires the CarbitLink app to run in the background.
- **Built-in 4G Cellular Modem:** Insert a Micro SIM card with a data plan into the dedicated slot. The modem supports various 2G, 3G, and 4G LTE frequency bands.



Image 4.1: Visual representation of the four internet access options: 4G Hotspot, WiFi, Bluetooth Tethering, and USB Tethering, ensuring continuous online access even during wireless CarPlay/Android Auto usage.

4.2. Dual Bluetooth Functionality

The S8 Ultra New features two independent Bluetooth chips:

- **Bluetooth 1 (BT1):** Supports HFP/HSP/A2DP/AVRCP/PBAP protocols with SBC and AAC codecs. Ideal for hands-free calls with noise cancellation and CD-level audio streaming (aptX HD). It also allows synchronization of contacts and recent call records.
- **Bluetooth 2 (BT2):** Functions for Bluetooth tethering internet access and connecting to various Bluetooth peripherals such as gamepads, OBD2 scanners (e.g., AC-4450), and TPMS devices.

The system allows connecting up to 3 devices simultaneously (one for audio, two for data communication). BT1 can also wake up your phone's voice assistant (Siri, Google Assistant).

4.3. Smartphone Integration (CarPlay & Android Auto)

The S8 Ultra New seamlessly integrates your iOS or Android smartphone:

- **Wireless CarPlay & Android Auto:** Connect your smartphone wirelessly to access navigation, music, messages, and calls directly on the S8's display.
- **Wired CarPlay & Android Auto:** For wired connections, use the factory/original USB cable that came with your phone.
- **Phone Mirroring:** The pre-installed CarbitLink app supports mirroring for both iOS and Android devices via USB or Wi-Fi.

4.4. Audio Features

Experience high-fidelity audio with advanced sound processing:

- **Digital Signal Processor (DSP):** Allows precise equalization, signal delay (time correction), bass boost, and bass filter settings.
- **Equalizer:** Features 9 preset EQ modes and 32 adjustable frequency bands (16 for front, 16 for rear).
- **Amplifier:** Built-in Peak 4x49W BTL Amplifier with RMS 4x29W (Vcc=14.4v, THD=10%).
- **Speed Compensated Volume Control (SCVC):** Automatically adjusts volume based on vehicle speed to compensate for road noise.



Image 4.2: Screenshot of the ATOTO S8 Ultra New's audio interface, displaying the 32-band equalizer, time correction, bass boost, sound field, and crossover settings for high-fidelity immersive audio.

4.5. Display and User Interface

- **QLED Screen:** Full HD 7-inch 1024x600 5-Touch Capacitive Touchscreen with 600cd/m2 brightness and 178° viewing angle.
- **Split Screen Display:** Run two applications simultaneously, such as navigation and a media player.
- **Digital Photo Frame:** Display memorable photos from a specified gallery folder.
- **ATOTO AICE UI 11.0:** Customized Android-based system for intuitive operation.

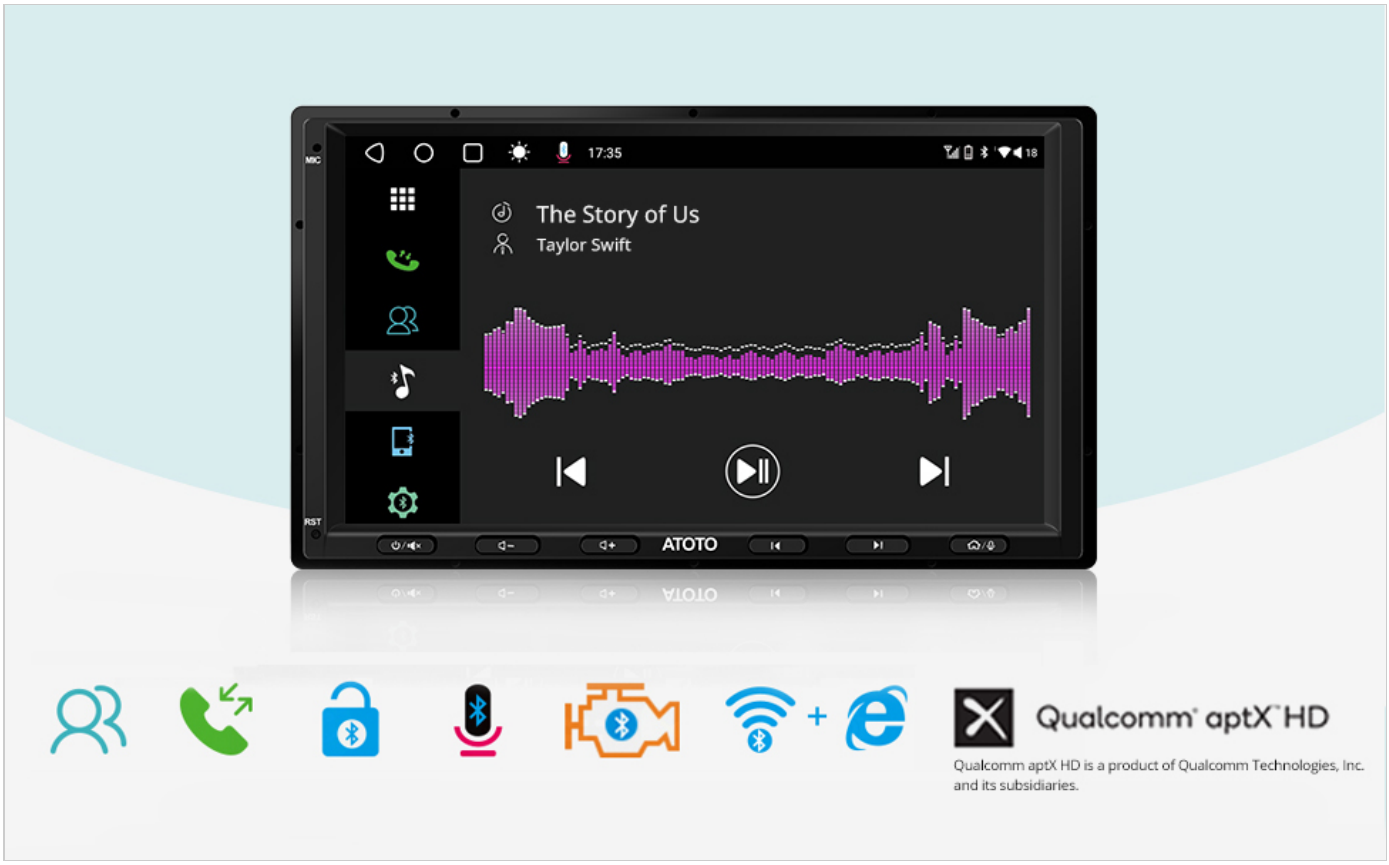


Image 4.3: Comparison of QLED screen technology against TN-LCD and IPS-LCD, demonstrating the superior color and contrast of the QLED display on the ATOTO S8 Ultra New.

4.6. Camera Integration

Enhance driving safety and recording capabilities:

- **Front Camera (AC-FCR04W, optional):** Connect for front recording and real-time viewing.
- **Rear Camera (AC-RCR04W, optional):** Connect for rearview display and recording. Supports 720P HD video signal.
- **Live RearView (LRV):** Access rearview even when moving forward, clearing blind spots caused by passengers or vehicle structure.



Image 4.4: Depiction of the ATOTO S8 Ultra New's capability to integrate with optional 1080P front (AC-FCR04W) and rear (AC-RCR04W) recording cameras, providing real-time recording and live rear view.

4.7. Pre-installed and Optional Apps

- **DriveChat:** AI-powered by ChatGPT for natural language voice interaction. Updates are released periodically.
- **TrackHU:** ATOTO's GPS tracking app to locate your car in real-time, customize alerts, and view past data.
- **Google Play Store:** Access to over 1000 compatible Android apps, especially media/entertainment and navigation apps.
- **IoT Hub:** Connect to Bluetooth OBD II scanners (AC-4450), USB TPMS (AC-UTP1), and other devices for an enhanced experience.



Image 4.5: Display of the ATOTO S8 Ultra New's interface featuring the DriveChat GenAI Assistant, TrackHU GPS Tracker, and other applications, indicating smart and real-time functionality.



Image 4.6: Illustration of the ATOTO S8 Ultra New acting as a seamless IoT hub, managing various Bluetooth Low Energy (BLE) devices such as OBDII scanners, interior footwell lights, and gamepads.

5. Maintenance

- **Screen Cleaning:** Use a soft, lint-free cloth to clean the QLED screen. Avoid abrasive cleaners or solvents.
- **Software Updates:** Regularly check for system and app updates via the ATOTO FindApps store or OTA (Over-The-Air) updates to ensure optimal performance and access to new features.
- **Firmware Updates:** Keep the system firmware updated as recommended by ATOTO for improved stability and compatibility.

6. Troubleshooting

This section addresses common issues you might encounter with your ATOTO S8 Ultra New car stereo.

Problem	Possible Cause	Solution
Unit does not power on.	Incorrect wiring; Blown fuse; Vehicle battery issue.	Check power (yellow, red, black) connections. Verify vehicle fuses and battery.
No sound from speakers.	Incorrect speaker wiring; Volume too low; Mute activated; Amplifier issue.	Check speaker connections. Increase volume. Ensure unit is not muted. Verify external amplifier connections if used.
GPS signal weak or unavailable.	GPS antenna not properly connected or obstructed.	Ensure GPS antenna is securely connected and placed in an unobstructed location (e.g., dashboard).
Wi-Fi/4G LTE connectivity issues.	Incorrect network settings; Weak signal; SIM card not inserted or active.	Verify Wi-Fi password or SIM card activation. Check signal strength. Ensure antennas are connected.
Wireless CarPlay/Android Auto not connecting.	Bluetooth/Wi-Fi issues on phone or head unit; Incompatible phone OS version.	Ensure Bluetooth and Wi-Fi are enabled on both devices. Restart phone and head unit. Update phone OS if necessary.
System lagging or unresponsive.	Too many apps running; System overload; Outdated firmware.	Close unnecessary apps. Restart the unit. Check for and install system updates.

For further assistance, refer to the online manual or contact ATOTO customer support.

7. Specifications

- **Model:** S8G2A79UN
- **Operating System:** Android (ATOTO AICE UI 11.0)
- **Processor:** UIS 7862 ARM Cortex Octa-Core (up to 1.8GHz) CPU with ARM Mali-G52 MP2 GPU
- **RAM:** 6GB
- **ROM:** 128GB
- **Display:** 7-inch QLED, 1024x600 resolution, 5-Touch Capacitive Touchscreen, 600cd/m2 brightness, 178° Viewing Angle
- **Connectivity:** 4G LTE (Micro SIM), Wi-Fi (2.4Ghz & 5Ghz), Dual Bluetooth (BT1: HFP/HSP/A2DP/AVRCP/PBAP with aptX HD; BT2: Tethering, OBD2, TPMS), USB
- **Audio Output:** Built-in Peak 4x49W BTL Amplifier (RMS 4x29W), 4-CH RCA Audio Out (2V), Separate Sub-woof Out (0.8V)
- **DSP:** 32-band adjustable frequency bands (16 front, 16 rear), 9 preset EQ modes, Time Correction, Bass Boost, Bass Filter
- **GPS:** Built-in GPS Receiver module with external GPS antenna
- **Inputs:** AUX Audio(L/R) /Video input, FCAM front camera video input, Rearview camera input (720P HD support)
- **Dimensions:** 172mm x 97mm (panel), 178mm x 101.5mm (with frame adapter)
- **Item Weight:** Approximately 3.08 pounds

8. Warranty and Support

Your ATOTO S8 Ultra New car stereo comes with a standard**12-month warranty** from the date of purchase. An additional **6 months of warranty** can be obtained by registering your product. Details for registration are typically found in the product packaging or online resources.

For customer support, technical assistance, or warranty claims, please contact the ATOTO customer care team. Contact information can be found in the product box or by visiting the official ATOTO website. Support is available around the clock on workdays.
You can also seek help via your order center or by contacting support at atotoglobal.

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