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AINAVI Qualcomm 665 CIC Upgrade Stereo (BMW X5 E70 X6 E71)

AINAVI Car Radio Qualcomm 665 User Manual

FOR BMW X5 E70 X6 E71 (2011-2013) CIC SYSTEMS

1. PRODUCT OVERVIEW

The AINAVI Qualcomm 665 Car Radio is an advanced Android 11 infotainment system designed to seamlessly integrate with specific BMW models. It enhances your driving experience with modern features while retaining the original vehicle functionalities.



Image: The AINAVI 10.25-inch Android Car Radio Unit, showcasing its sleek design and large display.

Key Features:

- Qualcomm Snapdragon 665 Processor:** Octa-core, 2.0 GHz, 64-bit with Adreno 610 GPU for smooth and stable performance.
- Android 11 Operating System:** Modern and intuitive user interface.
- 10.25-inch IPS Touch Screen:** 1920x720 resolution with 178° full-viewing angle for clear visuals.
- Wireless Apple CarPlay & Android Auto:** Seamless smartphone integration for navigation, calls, messages, and

music.

- **Built-in 4G LTE Module:** Integrated connectivity without extra parts (check regional service support).
- **GPS Navigation:** Supports online and offline maps.
- **Dual Band WiFi (2.4Ghz & 5Ghz) & Bluetooth 5.0:** High-speed internet access and stable wireless connections.
- **Retains Original BMW Features:** Compatible with iDrive controller, steering wheel controls, factory TPMS, backup camera, parking sensors, 360 cameras, radio, DAB+, and OEM microphone.



Image: A detailed view of the Qualcomm Snapdragon 665 processor chip, highlighting its advanced technology.

2. COMPATIBILITY

This head unit is specifically designed for the following BMW models with the CIC System:

- BMW X5 E70 (2011-2013)
- BMW X6 E71 (2011-2013)

Important: Please identify if your BMW car has a CIC System LVDS Plug (4 pins) before purchase. This unit is not compatible with NBT or CCC systems.

Compatible Models

For BMW X5/X6 E70/E71 2011-2013 CIC



For BMW X5 E70 2011-2013 CIC

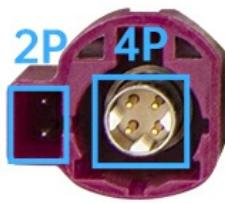


For BMW X6 E71 2011-2013 CIC

Image: Visual representation of compatible BMW X5 E70 and X6 E71 dashboards, showing where the unit integrates.

Identify iDrive System

Before buying! Please kindly remove down the original Screen on a BMW car! And check the LVDS port if your car's system is CIC, CCC or NBT ?



NBT System LVDS Plug (6 pins)



CIC System LVDS Plug (4 pins)



CCC System LVDS Plug (10 pins)

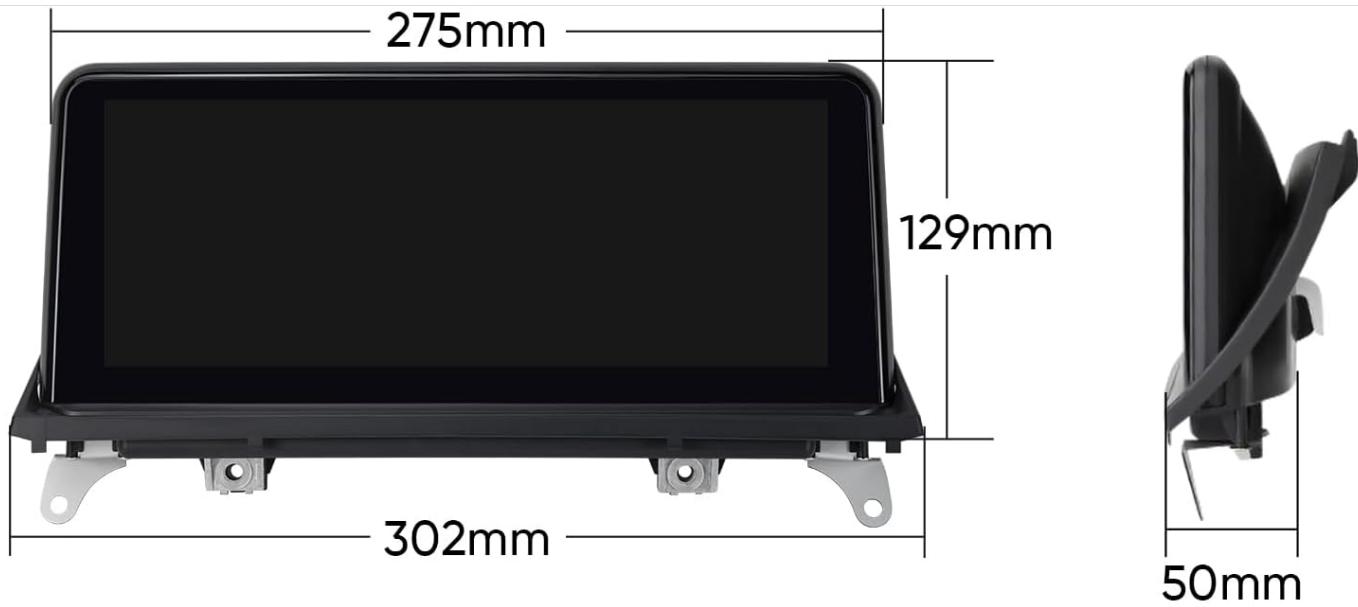
Image: Diagram illustrating how to identify your BMW's iDrive system by checking the LVDS plug type (NBT, CIC, CCC).

3. SETUP AND INSTALLATION

Professional installation is recommended. Ensure the vehicle's power is disconnected before beginning installation.

3.1. What's in the Box:

- 1x 10.25" Android Head Unit
- SO Wiring Harness
- 4G LTE Antenna, GPS Antenna
- 4G LTE SIM Slot & USB Cable
- User Manual, Audio Cable



ISO Wiring Harness



4G LTE Antenna



Audio Cable



4G LTE SIM Slot & USB



GPS Antenna



Installation Instruction

Image: A visual guide to the components included in the package, along with the dimensions of the head unit.

3.2. Wiring Diagram:

Refer to the following diagram for proper wiring connections. Ensure all connections are secure to prevent malfunctions.

Wiring Diagram



- ① SO Wiring Harness (Male Plug)
- ② ISO Wiring Harness (Female Plug)
- ③ AUX-OUT
- ④ DVR-CVBS (DVR Camera Input)
- ⑤ CCD-CVBS (Aftermarket Back-up Camera Input)
- ⑥ CAM-PWR (Aftermarket Back-up Camera Cable)
- ⑦ GND
- ⑧ 5V- OUT
- ⑨ ACC-OUT
- ⑩ 360-DET
- ⑪ USB Port
- ⑫ USB Port
- ⑬ 4G LTE SIM Slot (Not all American 4G service)
- ⑭ GPS Antenna
- ⑮ 4G LTE Antenna
- ⑯ LVDS Port (4 pins CIC system)

Image: A detailed wiring diagram showing the connections for the SO Wiring Harness, USB ports, 4G LTE SIM slot, GPS antenna, and LVDS port.

1. **Disconnect Battery:** Before starting, disconnect the vehicle's negative battery terminal.
2. **Remove Original Screen:** Carefully remove the original BMW screen and trim pieces.
3. **Connect Wiring Harness:** Connect the provided SO Wiring Harness to the vehicle's original harness. Ensure the LVDS plug (4 pins for CIC system) is correctly connected.
4. **Connect Antennas:** Attach the 4G LTE antenna and GPS antenna to their respective ports on the head unit. Position them for optimal signal reception.
5. **Connect USB & SIM Slot:** Connect the USB cable and 4G LTE SIM slot cable. Route them to a convenient location for access.
6. **Mount Head Unit:** Securely mount the new AINAVI head unit in the dashboard.
7. **Reconnect Battery:** Once all connections are made and secured, reconnect the vehicle's battery.
8. **Test Functionality:** Power on the unit and test all functions, including touch screen, audio, GPS, CarPlay/Android Auto, and original BMW features.

4. OPERATING INSTRUCTIONS

4.1. System Navigation:

The unit operates on Android 11. Navigate through menus using the touch screen or the original iDrive controller. Swipe gestures and tap actions are similar to a smartphone or tablet.

Exclusive Design

Smart Appearance Keep the original BMW style



Image: The AINAVI head unit seamlessly integrated into a BMW dashboard, displaying its user interface.

4.2. Wireless Apple CarPlay & Android Auto:

Connect your iPhone or Android smartphone wirelessly for an integrated experience.

1. Ensure Bluetooth is enabled on your phone and the head unit.
2. Pair your phone with the head unit via Bluetooth.
3. Follow the on-screen prompts to activate Wireless CarPlay or Android Auto.
4. Use voice commands ("Hey Siri" or "Hey Google") for hands-free operation.

Built-In

Wireless Apple CarPlay Wired Android Auto

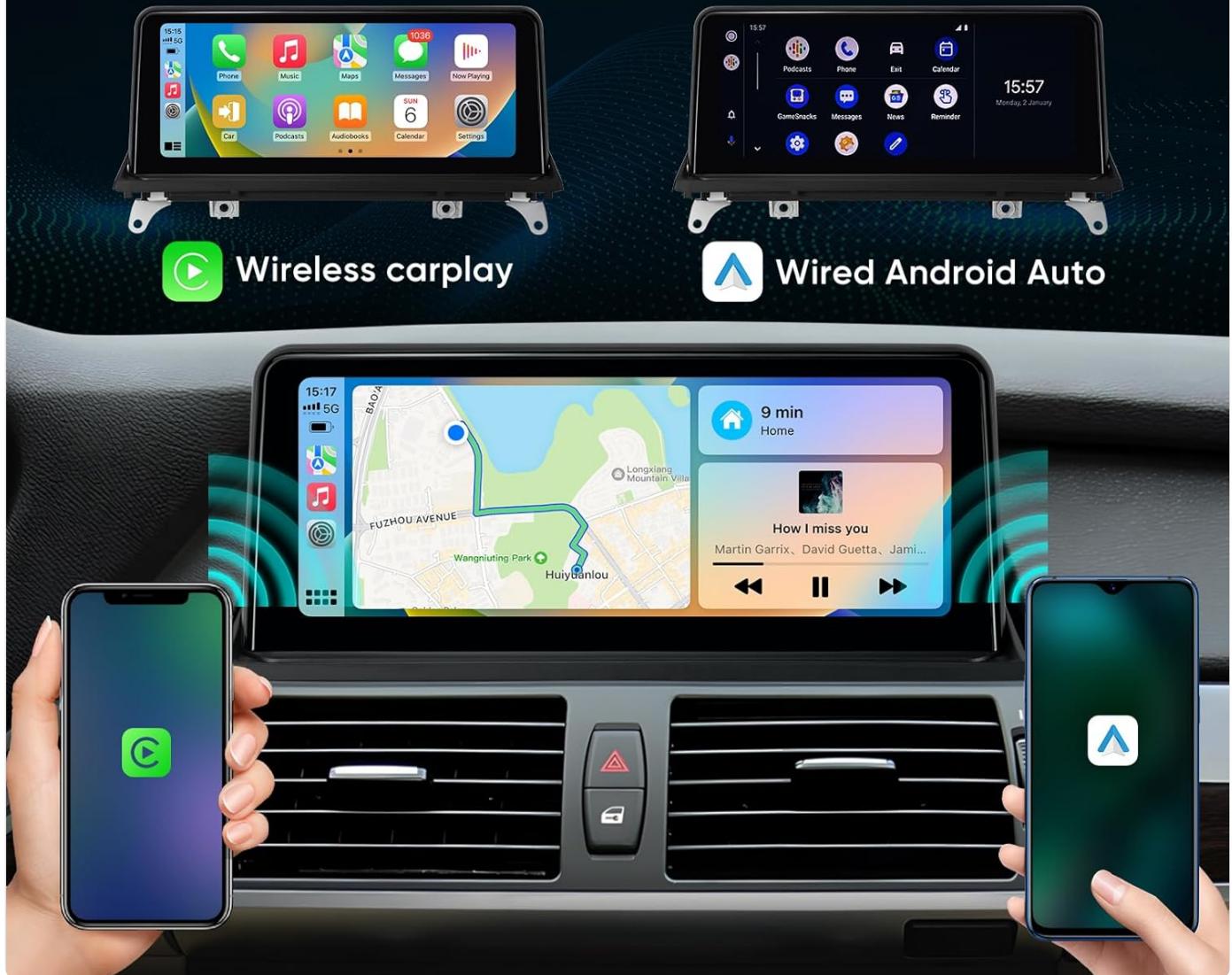


Image: A split image demonstrating the interfaces of Wireless Apple CarPlay and Wired Android Auto on the head unit, with smartphones connected.

4.3. GPS Navigation:

The unit comes with built-in GPS. You can use pre-installed navigation apps or download others from the Google Play Store.

- **Online Navigation:** Connect to WiFi or use the 4G LTE module for real-time traffic updates.
- **Offline Maps:** Download maps for your region to use navigation without an internet connection.

Bluetooth 5.0

Hands-free calls | Audio Streaming | Voice Control



GPS

Support Android navigation applications



Original Car Information Display

Showing original car info in different colour theme



2K Video Player

Support playing 2K video and compatible with more video format



Image: A collage showcasing the Bluetooth 5.0 interface, GPS navigation, original car information display, and 2K video playback capabilities of the unit.

4.4. 4G LTE Connectivity:

Insert a compatible 4G SIM card into the provided slot to enable mobile data connectivity directly on the head unit. This allows for online streaming, real-time navigation updates, and app downloads without relying on your phone's hotspot.

4.5. Retaining Original BMW Features:

The system is designed to work alongside your original BMW infotainment system. You can switch between the Android interface and the original BMW interface seamlessly. All original functions like iDrive, steering wheel controls, and factory cameras will continue to operate.

Support Original BMW System



Retains the iDrive system



Retains Amplifier System



Support Original Car Information Display



Support Original Backup Camera



Support Steering Wheel Control Function



Retains Original CD Player



Retains Original Radio



Retains Original Bluetooth

Image: A grid of images demonstrating the unit's compatibility with various original BMW features, including the iDrive system, amplifier, car information display, backup camera, steering wheel controls, CD player, radio, and Bluetooth.

Perfect Integration with Your Original BMW Infotainment System



AINAVI's innovative system integrates with the factory radio. It retains all of the original factory features you enjoy including the ID controller, all steering wheel button controls, factory TPMS, the backup camera, parking radar sensors, factory 360 cameras, factory radio, DAB+ radio, and OEM microphone. Perfect Integration of Android and your Original



Image: A visual representation emphasizing the seamless integration of the AINAVI system with the original BMW infotainment system, showing the retained functionalities.

4.6. Multiple UI Themes:

Customize the look and feel of your head unit with various user interface themes available in the settings.



Image: A collage displaying several different user interface themes that can be selected on the head unit, offering customization options.

5. MAINTENANCE

- Screen Cleaning:** Use a soft, lint-free cloth to clean the touch screen. For stubborn smudges, dampen the cloth slightly with water or a screen-safe cleaner. Avoid harsh chemicals.
- Software Updates:** Periodically check for software updates through the unit's settings or the manufacturer's website to ensure optimal performance and access to new features.
- Avoid Extreme Temperatures:** Do not expose the unit to extreme heat or cold for prolonged periods, as this can affect its lifespan and performance.
- Secure Connections:** Ensure all cables and connections remain secure to prevent intermittent issues.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit does not power on.	Loose power connection, blown fuse, incorrect wiring.	Check all power connections. Inspect vehicle fuses. Verify wiring against the diagram.
No sound or distorted audio.	Incorrect audio cable connection, volume too low, amplifier issues.	Ensure audio cables are properly connected. Adjust volume. Check original BMW amplifier functionality.
CarPlay/Android Auto not connecting.	Bluetooth not paired, phone settings, app issues.	Ensure Bluetooth is on and paired. Restart phone and head unit. Check phone's CarPlay/Android Auto settings.
GPS signal weak or inaccurate.	GPS antenna not properly installed or obstructed.	Ensure GPS antenna is securely connected and placed in a clear location (e.g., dashboard, not under metal).
Original BMW features not working.	Incorrect LVDS connection, system switch issue.	Verify the LVDS plug connection. Ensure you are switching to the original BMW interface correctly.

If you encounter issues not listed here or require further assistance, please contact AINAVI customer support.

7. SPECIFICATIONS

Feature	Detail
Operating System	Android 11
Processor	Qualcomm Snapdragon 665, Octa-core, up to 2.0 GHz
RAM	4 GB (LPDDR4X)
ROM	64 GB (eMMC)
Display Size	10.25 Inches
Resolution	1920 x 720 IPS
Connectivity	4G LTE (Built-in Module), Dual Band WiFi (2.4Ghz & 5Ghz), Bluetooth 5.0
Navigation	Built-in GPS

Feature	Detail
Smartphone Integration	Wireless Apple CarPlay, Wireless Android Auto
Audio Output Mode	Stereo
Item Weight	4.4 pounds (approx. 2 kg)
Package Dimensions	14.02 x 13.11 x 5.16 inches

8. WARRANTY AND SUPPORT

8.1. Warranty Information:

This product comes with a **1-year manufacturer's warranty** from the date of purchase. Please retain your proof of purchase for warranty claims. The warranty covers defects in materials and workmanship under normal use.

8.2. Customer Support:

For technical assistance, installation queries, or troubleshooting, please contact AINAVI customer support. You can typically reach us through the seller's contact page on the platform where you purchased the product, or visit the official AINAVI store for contact information.

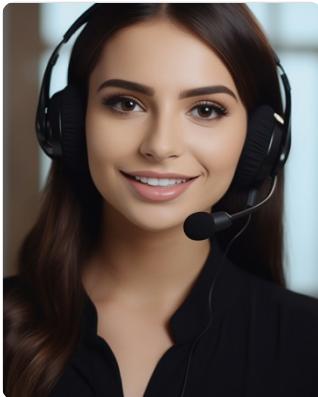


Image: A friendly customer support representative, symbolizing assistance available for product inquiries.

AINAVI is committed to providing high-performance car multimedia components and excellent customer service. We encourage you to follow our store for more information and product updates.

Thank you for choosing AINAVI.