

NAVLYNX ApplePie Rocket plus

Model: APM1588

USER MANUAL

5G Smart In-Car Android Expansion Box



Qualcomm SM6350 5G Platform | Android 16 | 8 GB + 128 GB uMCP | HDMI

Document Version 1.0

Read this manual before using the product and keep it for future reference.

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Note: Ports, memory configurations, cellular bands and software interfaces may vary by sales region and firmware version. Refer to the actual product supplied.

1. Product Overview

NAVLYNX ApplePie Rocket plus (APM1588) is a 3-in-1 Android 16 expansion platform for compatible factory wired CarPlay, factory wireless CarPlay or factory wired Android Auto. It adds apps, navigation, media and mobile connectivity while retaining the vehicle display and audio. Vehicle input and wireless phone projection are different connections. Confirm the original vehicle connection and supplied firmware before ordering. The USB steps below illustrate a wired CarPlay connection; ask NAVLYNX Support for the matching wireless setup.

Safety notice: Do not watch video content or operate complex menus while driving. Entertainment functions are intended for passengers or for use only when the vehicle is safely parked.

Key Features

- Open Android application platform for compatible navigation, music and entertainment apps.
- Wireless Apple CarPlay and wireless Android Auto.
- 5G mobile data connectivity with a compatible SIM card.
- Dual-band Wi-Fi and Bluetooth 5.x.
- GPS, GLONASS and BeiDou positioning with L1 + L5 dual-band GNSS platform support.
- HDMI output is standard on this model and can be used with a compatible rear-seat display.
- OTA updates, online log upload and TF / microSD log export for diagnostics.

2. Compatibility and Package Check

2.1 Vehicle Compatibility

Compatible vehicle inputs: factory wired CarPlay, factory wireless CarPlay or factory wired Android Auto. For a wired input, use the matching USB data port and a data/OTG cable, not a charging-only port. Factory wireless CarPlay does not require a wired CarPlay data port. Controls, audio and HDMI behavior vary by vehicle, OEM software and product firmware. The box does not change the original head unit's capabilities.

2.2 Phone Compatibility

- Wireless CarPlay: use an iPhone that supports Apple CarPlay, with Bluetooth and Wi-Fi enabled.
- Wireless Android Auto: use an Android phone that supports Android Auto, with Bluetooth and Wi-Fi enabled.
- Phone OS version, region settings and service availability may affect the connection.

2.3 Package Check

Item	Description
NAVLYNX ApplePie Rocket plus (APM1588)	1 unit
USB data cable and matching adapter(s)	Included for compatibility with different vehicle CarPlay USB data ports. The connector combination and quantity depend on the supplied package.
Quick start guide or user manual	1 copy
Other accessories	Subject to the supplied package

Important: A third-party USB cable must support both data transfer and OTG. A charging-only cable may prevent detection, cause unstable connections or stop the device from entering the Android system. Use a stable DC 5 V power source rated at 2 A or higher; insufficient current may cause restarts or unstable operation.

3. Product Specifications

3.1 Core Hardware Specifications

Item	Specification
Processor platform	Qualcomm SM6350 / Snapdragon 690 5G platform
CPU	8-core Kryo 560, up to 2.0 GHz; 2 × A77 at 2.0 GHz + 6 × A55 at 1.7 GHz
Process technology	8 nm FinFET
GPU	Adreno 619
AI performance	Up to approximately 2.4 TOPS
Memory and storage	8 GB RAM + 128 GB storage (uMCP)
Cellular network	5G NR Sub-6 GHz with SA / NSA support and 4G LTE fallback. Supported bands depend on the regional version and carrier network.
Wi-Fi	2.4 GHz + 5 GHz, Wi-Fi 5, IEEE 802.11 a/b/g/n/ac, 2 × 2 MU-MIMO
Bluetooth	Bluetooth 5.x BLE with backward compatibility
GNSS	GPS / GLONASS / BeiDou with L1 + L5 dual-band GNSS support
Video capability	Video decoding up to 4K at 30 fps; H.265 / H.264 support
USB	USB data and power. For wired inputs, use the matching vehicle data port and a data/OTG cable.
Rated input	DC 5 V, 2 A or higher
Operating temperature	-20°C to +70°C
TF / microSD card	Supports up to 512 GB for local update packages, log export and local file storage
HDMI output	Standard feature; supports connection to a compatible rear-seat display
Operating system	Android 16

Note: The specifications above describe the product platform and available sales configurations. Certain platform-level functions may not be enabled on every finished-product version.

3.2 Regional Cellular Versions

Cellular bands vary by regional version. Before purchase, confirm compatibility with the local carrier bands and SIM data service. Roaming SIM cards, MVNO SIM cards, IoT SIM cards and SIM cards requiring a custom APN may need manual APN configuration.

4. Initial Connection and Basic Operation

4.1 Wired CarPlay connection example

1. Start the vehicle and wait for its infotainment system to boot.
 2. Connect the box to the vehicle's wired CarPlay USB data port using the supplied data cable.
 3. Wait for detection, then select the Apple CarPlay entry on the vehicle screen.
 4. Open the Android home screen, connect a network and configure your apps.
- For factory wireless CarPlay or wired Android Auto, ask NAVLYNX Support for the setup matching your vehicle and firmware.

First boot: The first boot normally takes longer than a routine boot. Do not repeatedly disconnect the USB cable during system initialization.

4.2 Basic Interface Operations

Operation	Description
Return to the OEM interface	Use the Home / Exit / OEM Car icon or the OEM CarPlay return logic. The exact method varies by vehicle.
Open Android system settings	Open Settings, then select More settings.
Download apps	When online, use the pre-installed app store or another permitted installation method to obtain compatible apps.
Change wallpaper or language	Select Wallpaper or Languages in Settings.
Launch an app automatically after boot	Open Bootup Run and select the app to be started automatically.

5. Wireless CarPlay and Wireless Android Auto

This section describes wireless phone projection after the box is connected through a compatible vehicle input. Phone Bluetooth is used for pairing; Wi-Fi carries the phone's projection data.

5.1 First-Time Pairing

- Open the phone-projection app on the Android home screen. Depending on the firmware version, it may be named XLink, CarPlay, AutoKit or a similar name.
- Enable Bluetooth and Wi-Fi on your phone.
- In the phone Bluetooth device list, select the name shown on the vehicle screen and complete pairing.
- Confirm the CarPlay or Android Auto connection on the phone when prompted.
- Wait for the connection to complete. The device will normally try to reconnect to a paired phone automatically during future use.

5.2 Quick Troubleshooting for Connection Failures

- For a wired vehicle input, confirm the matching USB data port and a data/OTG cable.
- Delete old Bluetooth pairing records from the phone and OEM infotainment system, then pair again.
- Delete old device records in the phone-projection app on the box.
- If the issue remains, restart the phone, OEM infotainment system and box. Perform a factory reset only if necessary.

6. Network, SIM Card and Hotspot Settings

6.1 Use a SIM Card for Mobile Data

- Power off the product before inserting or removing the SIM card. Do not hot-swap the SIM card while the device is running.
- Insert the SIM card according to the slot marking. The orientation may vary by enclosure version; follow the label on the actual product.
- Reconnect power and boot the system. Mobile data normally turns on automatically.
- If the SIM card is detected but mobile data does not work, follow the APN instructions in Section 6.2.

6.2 Configure an APN

- Open Settings → More settings → Network & Internet → SIM / Mobile network → Access Point Names.
- Use Reset to default from the top-right menu to restore the carrier APN first.
- If mobile data still does not work, insert the SIM into an Android phone, check the carrier APN parameters and create the same APN on the box.
- Save and select the new APN. Toggle Mobile data off and on again, or restart the device if required.

6.3 Use Wi-Fi or a Phone Hotspot

- Open Settings → Wi-Fi, select an available network and enter the password.
- To use a phone hotspot, enable the hotspot on the phone and select it from the Wi-Fi list on the box.

- When Save hotspot status is enabled, the device attempts to retain the native hotspot state after a restart.

7. System Settings Reference

Available settings vary slightly by firmware and hardware version. Keep the default values for normal use. Adjust advanced settings only when the corresponding issue occurs.

7.1 General Settings

Setting	Description
Wi-Fi	Enable or disable Wi-Fi and connect to a wireless network.
Bluetooth	Forward Bluetooth switch. It is enabled by default. Wireless CarPlay may automatically change its state.
Mobile data	Mobile data switch. It normally turns on automatically when a working SIM card is inserted.
Wallpaper	Change the system wallpaper.
Languages	Change the system language.
More settings	Open the native Android settings interface.
Bootup Run	Select an app to launch automatically after boot.
Boot Delay	Set the delay before the selected boot app starts.
Save hotspot status	Retain the native mobile hotspot state after a restart.

7.2 Display and Interface

Setting	Description
Use the OEM GPS Data	Use OEM vehicle GPS data when supported to improve positioning stability.
Auto Right-Hand Drive	Automatically switch the UI between left-hand-drive and right-hand-drive layouts based on the OEM vehicle data.
System Global Right-Hand Drive	Use a right-hand-drive layout in native Android settings and third-party apps.
Auto Scale to Screen	Scale the phone-projection interface to fit the OEM display. Newer versions normally adjust this automatically.
Auto Dark Theme	Switch to the dark theme automatically according to the vehicle lighting state.
Quick Floating Ball	Show a shortcut floating ball for quick access to virtual keys.
Widget / Widget App List	Enable widget mode and select apps that may run in a small window. Supported by selected UI versions.

7.3 Audio and Navigation

Setting	Description
ID3 Display	Send the currently playing track, artist or album information to a compatible OEM cluster or infotainment display.
Bluetooth Audio Mode	Choose whether Bluetooth audio is output only on the Bluetooth screen or may continue on any screen.
Audio Stream General Mode	Enabled by default. On certain vehicles, connecting the box forces the OEM audio away from another app. Disable this option to improve background audio behavior in that situation.
Audio-Video Sync Options	Adjust the delay between sound and picture. Fine-tune the value in milliseconds if audio and video are not synchronized.

Setting	Description
Navigation Voice	Force a selected app to use the navigation voice channel.
Voice Assistant	Select the default app launched by the steering-wheel voice key.
Streaming Audio Whitelist	Select apps allowed to use the streaming-audio channel.
Disable MIC Permissions / APP MIC	Disable microphone permission for selected apps. This may help resolve audio stuttering in certain music apps.

7.4 Advanced Compatibility Settings

Setting	Description
Check i frame	Key-frame checking and screen-repair mode. Enable it when the screen freezes, flickers, shows corrupted colors or displays artifacts.
Display Mode	Display bitrate and compatibility mode. Use Mode 1 by default. If video or audio stutters, try Mode 3 and restart the device.
Touch Coordinate Offset	Correct a touch-coordinate offset. Use it only when the response point does not match the touch point.
HDMI Special Mode	Rear-display linkage or independent display mode. HDMI output is standard on this model.
STB Mode	Use this mode when the product is connected only to an HDMI display and not to the OEM infotainment system.
HDMI Sound Off	Compatibility option for selected vehicles and rear displays. Try it when the HDMI rear display flickers, has no picture or has an audio issue.

7.5 Diagnostics and Maintenance

Setting	Description
Upload Log	Upload system logs while online. Provide the device IMEI to technical support for log lookup.
Copy Log File to SD Card	Copy system logs to a TF / microSD card for offline diagnostics.
IMEI QR Code	Display the device IMEI as a QR code for after-sales identification.
Country Code	Set the wireless country or region code. Keep the default value unless instructed by support.

8. Software Updates, Factory Reset and Log Export

8.1 Online Update (OTA / FOTA)

18. Connect the product to a stable Wi-Fi or mobile data network.
19. Open the Updater / Update app.
20. Select Check for Update.
21. If a new version is found, follow the on-screen instructions to download and install it.
22. Do not disconnect the USB cable, turn off the vehicle power or force a restart during the update.

8.2 Local Update with a TF / microSD Card

23. Use only an update package supplied by support and matched to the exact product version.
24. Do not unzip, rename or modify the file unless instructed by support.
25. Copy the update file to the root directory of a blank TF / microSD card.
26. Insert the card and follow the instructions supplied with the update package.
27. Keep the power supply stable until the update is complete.

Warning: Installing an update package for the wrong model or interrupting power during an update may prevent the

system from booting.

8.3 Factory Reset

28. Open Settings → More settings → System → Reset options.
29. Confirm that a factory reset is required.
30. Installed apps, account sign-ins, network passwords and personalized settings may be deleted.
31. After the restart, complete the initial setup again.

8.4 Upload System Logs

32. Make sure the device is connected to the Internet.
33. Open Settings → Upload Log.
34. Wait until the upload is complete.
35. Provide the IMEI or IMEI QR Code to technical support.

8.5 Copy Logs to a TF / microSD Card

36. Insert a blank TF / microSD card.
37. Wait approximately 1 - 2 minutes.
38. Open Settings → Copy Log File to SD Card.
39. Wait for completion, remove the card and send the log files to technical support.

9. Frequently Asked Questions (FAQ)

Question	Solution
The box does not open after it is connected to the vehicle.	For a wired connection, check the matching USB data port and a data/OTG cable. For a wireless vehicle input, ask NAVLYNX Support to verify the vehicle and firmware setup. Restart the head unit and box.
Wireless CarPlay or wireless Android Auto cannot connect.	Delete old Bluetooth pairing records from the phone, box and OEM infotainment system. Pair again. If the problem remains, restart the phone and box. Perform a factory reset only if necessary.
The picture freezes, flickers, shows artifacts or has incorrect colors.	Enable Check i frame in Settings and test again. If required, change Display Mode and restart the device.
Video playback or audio stutters.	Set Display Mode to Mode 3 and restart the device. If the main issue is audio stuttering, also try a compatible Audio-Video Sync Mode.
Audio and video are not synchronized.	Open Settings → Audio-Video Sync Options and adjust the delay gradually in milliseconds until sound and picture match.
Track or album information is not shown on the OEM cluster.	Enable ID3 Display in Settings. This feature works only when the OEM vehicle supports the relevant metadata display.
The SIM card is not detected.	Power off the product, reinsert the SIM card according to the slot marking and restart. Do not insert or remove a SIM card while the product is powered on.
The SIM card is detected but mobile data does not work.	Open the APN settings and use Reset to default first. If the issue remains, copy the carrier APN parameters from an Android phone, create a new APN on the box and toggle Mobile data.
The HDMI rear display flickers, has no picture or has an audio issue.	Try HDMI Special Mode or HDMI Sound Off, then reconnect the HDMI cable. If the issue remains, provide the vehicle model and use case to technical support.
A music app produces audio stuttering.	Open native Android Settings → Apps → the app → Permissions and disable Microphone permission. You may also use Disable MIC Permissions / APP MIC.
Can I use a PD charger or a third-party cable?	Yes, when appropriate, but the cable must support data transfer and OTG. Use the supplied cable and adapter whenever possible.
How do I export logs for support?	When online, use Upload Log and provide the IMEI. For offline export, insert a TF / microSD card and use Copy Log File to SD Card.

10. Safety Information and Compliance Marks

10.1 Safety Information

- Do not watch videos or operate complex menus while driving.
- For wired connections, use the matching vehicle USB data port and a reliable data/OTG cable.
- Keep the power supply stable during system updates.
- Do not insert or remove a SIM card while the product is powered on.
- Do not disassemble, modify or repair the device yourself.
- Avoid prolonged exposure to high temperature, moisture, liquids, strong vibration or direct sunlight.
- Availability, account services, content rights and regional restrictions for third-party apps are controlled by the corresponding service providers.

10.2 Compliance Marks

Applicable compliance marks are used according to the sales region and relevant regulatory requirements. FCC, CE and RoHS marks may appear on the product label, packaging or accompanying documents.

FCC	CE	RoHS
FCC	CE	RoHS

10.3 Trademark Notice

Apple, CarPlay, iPhone, Android, Android Auto, Bluetooth, Wi-Fi, Qualcomm, Snapdragon and other trademarks are the property of their respective owners. Trademarks are used in this manual only to describe product compatibility.

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