New Modem and Satellite Connectivity Features set for Google Pixel 9

Description

Most Pixel phone users don't usually give much thought to the modem of their device. Unfortunately, connectivity issues have forced many to address this overlooked aspect. Over the years, these issues have been a significant challenge for the Pixel series. However, with each new generation of Pixel phones, the situation has noticeably improved, and the forthcoming Pixel 9 series promises further enhancements.

According to an insider from Google, important modem upgrades are expected for the Pixel 9 series. Among them is the provision for satellite connectivity. Despite having started with software stability issues when Google switched to semi-custom Tensor chips in 2021, the condition improved as the platform matured. The Exynos Modem 5300 used in the Pixel 8 series reduced the problems. While there have been incidents of troubles after the March 2024 update, it's promising to see improvements.

The new Samsung Modem 5400 coming with the Tensor G4 in the Pixel 9 series is a significant upgrade. It is expected to be faster and more power-efficient than its predecessors. Alongside these improvements, Google has upgraded the software stack for the modems. As an added bonus, they will support 5G non-terrestrial networks (NTN), which includes satellite-based communication.

All cellular-friendly Tensor G4 devices, including the Pixel 9 series and the next-gen Pixel Fold, will feature this modem. Google is also reportedly developing a 5G tablet using the same modem.

Undoubtedly, the most significant aspect of this upgrade is the support for satellite-based communications. In collaboration with T-Mobile and SpaceX, Google has made substantial advances in integrating this technology. Moreover, emergency services can now be easily communicated with via the "Emergency SOS" feature in the new "Satellite Gateway" app.

While Google may not have partnered with Qualcomm for the modem upgrade, any improvement that reduces issues is certainly welcomed.

Vocabulary List:

1. **Modem** // (noun): A device that allows computers to transmit data over communication lines.
2. **Connectivity** // (noun): The extent to which different devices or systems can operate together effectively.
3. **Enhancements** // (noun): Improvements or upgrades to make something better.
4. **Provision** // (noun): The action of providing or supplying something for use.
5. **Platform** // (noun): A system or structure used as a base for other activities.
6. **Issues** // (noun): Problems or difficulties that need to be addressed.

Vocabulary quizzes

Multiple Choice (Select the Correct answer for each question.)

1. What term refers to the state of being well-liked or widely supported?

   Option: Synergies
   Option: Abundance
   Option: Popularity
   Option: Enthusiasm

2. Which device is used to connect a computer to the internet?

   Option: Provision
   Option: Modem
   Option: Connectivity
   Option: Enhancements

3. Difficulties or problems that need to be addressed are known as?

   Option: Abundance
   Option: Upscaling
   Option: Stepping up
   Option: Issues

4. Opposite of being unseen or imperceptible is?

   Option: Visible
   Option: Invisible
   Option: Villainous
   Option: Sparse

5. Improving or making something better is called?

   Option: Utilize
   Option: Enhancing
   Option: Amicable
   Option: Tease

6. What term describes something that brings about significant change?

   Option: Revolutionary
   Option: Optical
   Option: Provision
   Option: Abundance

7. The ability to connect to other devices or networks is known as?

Option: Connectivity
Option: Unstoppable
Option: Modding
Option: Laments

8. In a video game what are short animated clips that advance the story called?

Option: Cutscenes
Option: Platform
Option: Enhancements
Option: Issues

9. Which term refers to the underlying technology or system on which software runs?

Option: Stepping up
Option: Provision
Option: Platform
Option: Codenamed

10. What describes something that cannot be seen by the naked eye?

Option: Invisible
Option: Sparse
Option: Upscaling
Option: Enhancements

Gap-Fill (Fill in the blanks with the correct word from the vocabulary list.)

11. When different parts work together to create a combined effect greater than the sum of their separate

effects _____ are achieved.

12. John knew he had to _____ his efforts if he wanted to succeed in the project.

13. The story's antagonist had a _____ character always plotting evil schemes.

14. The invention of the smartphone was considered _____ in the world of technology.

15. Some gamers enjoy customizing their gaming experience through _____ .

16. In physics a _____ is a measurable extent of a particular kind such as length breadth

depth or height.

17. The company decided to _____ its marketing strategy to better target younger

audiences.

18. The garden was filled with an _____ of colorful flowers.

19. The forest was unusually _____ with few trees and little undergrowth.

20. The software update included several performance _____ to improve user

experience.

Matching Sentences (Match each definition to the correct word from the vocabulary list.)

21. The determined athlete was like a force of nature relentless in pursuit of victory.
22. The passionate teacher's for the subject inspired her students to excel.
23. The charity made sure to include a of food and supplies for the refugees.
24. The secret project was given a to maintain confidentiality until its official launch.
25. The tech-savvy customer wanted to know the exact of the new smartphone before purchasing.
26. The company focused on its production to meet the increasing demand for its products.
27. It is important to available resources efficiently to achieve optimal results.
28. After the negotiation both parties reached an agreement that satisfied everyone.
29. The playful child would often his siblings by hiding their toys.
30. The technician installed a new to improve the office's internet connectivity.

Answer

Multiple Choice: 1. Popularity 2. Modem 3. Issues 4. Visible 5. Enhancing 6. Revolutionary 7. Connectivity 8. Cutscenes 9. Platform 10. Invisible

Gap-Fill: 11. Synergies 12. Stepping up 13. Villainous 14. Revolutionary 15. Modding 16. Dimension 17. Reshape 18. Abundance 19. Sparse 20. Enhancements

Matching sentence: 1. Unstoppable 2. Enthusiasm 3. Provision 4. Codenamed 5. Specs 6. Upscaling 7. Utilize 8. Amicable 9. Tease 10. Modem

CATEGORY

1. Sci/Tech - LEVEL4

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