

# HotSpot Episode 13: Samsung Announces 5G

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This week on the HotSpot, brought to you by [Memory Protection Devices](#) [1]:

- [Samsung](#) [2] has announced the development of 5G mobile communication, which will offer transmission speeds in the tens of gigabits per seconds, which is hundreds of times faster than LTE. At 28 gigahertz, the breakthrough technology operates just outside of the millimeter band, which ranges from 30 to 300 gigahertz. Samsung says its 64-antennae can be a viable solution for overcoming the radio propagation loss at millimeter-wave bands, allowing the transmission of 3D films and games, ultra HD video, and remote medical services.
- A [Japanese company](#) [3] has developed an [iPhone attachment](#) [4] that allows messages or email notifications to be accompanied by a signature smell. The device connects to an [iPhone and packs an atomizer to disperse scents from the swappable scent tanks](#) [5] contained within. As such, the recipient will need the appropriate scent tank installed to receive the desired whiff.
- [Researchers](#) [6] have set a new [wireless data transmission record](#) [7] by achieving a [wireless transmission of 40 Gbit per seconds](#) [8] at 240 GHz over a distance of one kilometer. Not only does their recent demonstration set a new world record, but it also ties in seamlessly with the capacity of optical fiber transmission. In the future, such radio links will be able to close gaps in providing broadband Internet by supplementing the network in rural areas and places which are difficult to access.
- The screeneye X, from German navigation and sports specialist [o-synce](#) [9], puts the answer to the challenge of exercise motivation in front of your eyes. Projecting fitness data onto an LCD display integrated into the visor of the cap and positioned in front of the user's left eye, the unit can display a full range of training data. o-synce utilizes ANT+ wireless technology to connect the sensors monitoring the user's performance to screeneye X, and nRF24AP2 ANT chips, from [Nordic Semiconductor](#) [10], to help the device achieve interoperability and low power consumption.

Do you have story ideas? Comment below or email [wdd\\_web@advantagemedia.com](mailto:wdd_web@advantagemedia.com) [11] we'll cover them in an upcoming episode.

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