A low noise amplifier (LNA) amplifies a very low-power signal without significantly degrading its signal-to-noise ratio. When regular amplifiers amplify signals, additional noise is often introduced to the system. However, by using an electronic LNA, this noise can be significantly reduced.

Infineonâ€™s range of low noise amplifier ICs improve receiver sensitivity and thereby achieve the ultimate user experience. Our portfolio of MMIC RF LNAs is continuously updated to satisfy the ever-changing market requirements with custom made products for each application. Highly integrated in the smallest package, our LNA MMICs come with ESD protection and low power consumption, ideal for battery-operated mobile devices. What's more, our innovative SiGe technology delivers lower noise than silicon alternatives and performance comparable to more expensive GaAs counterparts.

Profiting with all the aforementioned advantages of our LNA MMICs, you will increase the system sensitivity tremendously, and the users of your 4G/5G, GPS, Mobile TV, Wi-Fi, and FM portable devices will enjoy features such as high data-rate reception, fast and precise navigation, and smooth high-quality streaming even in the worst reception conditions e.g. dense cities, underground, indoors, etc.

To learn more about the Infineon range of Low Noise Amplifier ICs, explore our complete product portfolio.

Reference

[Pediatric Clinical Practice Guidelines & Policies: A Compendium of Evidence-based Research for Pediatric Practice (AAP Policy)]

[Single-Case Research Designs: Methods for Clinical and Applied Settings]