



5G Fixed Wireless Access

Last Updated: Feb 26, 2025

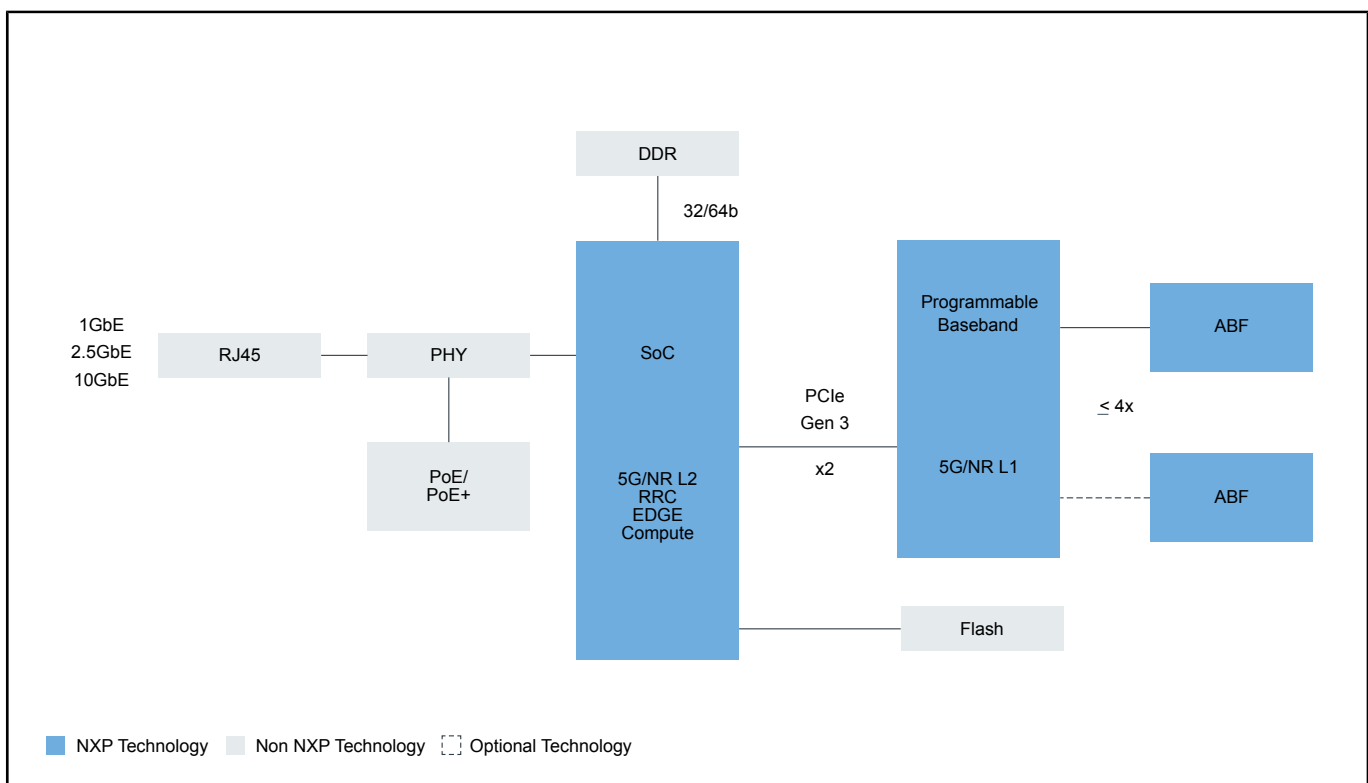
Demand for gigabit and faster internet is growing. Increasing number of applications such as high definition video streaming, work-from-home video conferences, cloud applications, multi-player gaming and HD security cameras, low latency IoT and other upcoming, smart applications contribute to an ever greater need for bandwidth and low latency response times.

5G Fixed Wireless Access is a price and power efficient way to quickly upgrade old fixed-line DSL, cable and under-performing fiber services for gigabit rate internet access to homes or businesses. Fixed Wireless Access enables service providers to quickly deliver ultra-high-speed broadband to dense urban, suburban and rural areas, without the expense of pulling fiber optic cables to the customer. NXP's Layerscape Access LA12XX chipset and ecosystem solution demonstrates multigigabit 5G Fixed Wireless Access for mmWave or sub-6GHz radio frequency deployment.

NXP's 5G Fixed Wireless Access CPE offers:

Software defined radio (SDR), that allows to choose optimized software algorithm for the FWA used cases and brings feature flexibility Open RF interface optimized for price, power and performance for both sub 6 Ghz and mmWave applications Network grade products, that supports physical robustness and product longevity guarantees

5G FWA Block Diagram



Recommended Products for 5G FWA	
SoC	<ul style="list-style-type: none"> • LS1046A: Layerscape® 1046A and 1026A Processors
Programmable Baseband	<ul style="list-style-type: none"> • LA12xx: Layerscape® Access LA12xx Programmable Baseband Processor • LS1043A: Layerscape® 1043A and 1023A Processors
ABF	<ul style="list-style-type: none"> • MMW9012K: 26.5 GHz–29.5 GHz 4-Channel Dual-Polarized Analog Beamforming Integrated Circuit • MMW9014K: 24.25 GHz–27.5 GHz 4-Channel Dual-Polarized Analog Beamforming Integrated Circuit

View our complete solution for [5G Fixed Wireless Access](#).

Note: The information on this document is subject to change without notice.

www.nxp.com

NXP and the NXP logo are trademarks of NXP B.V. All other product or service names are the property of their respective owners. The related technology may be protected by any or all of patents, copyrights, designs and trade secrets. All rights reserved. © 2025 NXP B.V.