

Broadband Modem and Residential Gateway

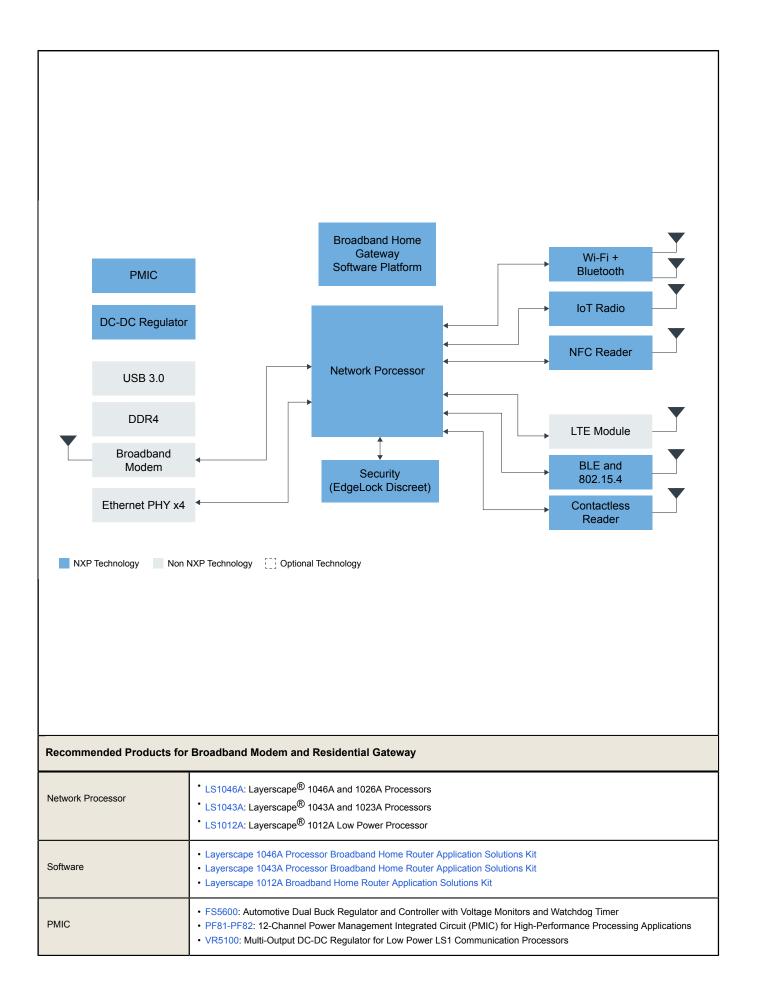
Last Updated: Mar 18, 2024

A broadband (smart home) gateway is an appliance that delivers broadband data, voice and video services to a home or customer premises. It is the point of entry for Internet services to the home and its performance is key to the quality of experience provided to the end user.

These days, most end users equate Wi-Fi performance in the home with the overall service provided by the broadband operator. More and more people also rely on their broadband data service for TV and video and increasingly expect to manage all of those services with voice-controlled applications. As a result, the residential gateway is moving out of the closet and becoming a central hub for wireless voice, data and video service delivery across the home.

NXP can offer a complete portfolio of solutions for modern residential gateways including gigabit-class network processors with hardware packet processing and QoS, leading-edge Wi-Fi, IOT radios and other supporting devices such as power management ICs. Further, NXP also offers a vertically integrated, extensively tested, power and performance optimized, Linux®-based OpenWRT Gateway application solutions kit (ASK) to customers inclined to build multiple market network products, such as embedded routers or programmable L3 switches based on the Layerscape Communication Processors.

Broadband Modem and Residential Gateway Block Diagram



NFC	PN7160: NFC Plug and Play Controller with Integrated Firmware and NCI Interface
Power Management	FS5600: Automotive Dual Buck Regulator and Controller with Voltage Monitors and Watchdog Timer VR5100: Multi-Output DC-DC Regulator for Low Power LS1 Communication Processors
Security (EdgeLock Discrete)	SE050: EdgeLock® SE050: Plug and Trust Secure Element Family – Enhanced IoT security with high flexibility SE051: EdgeLock® SE051: Proven, Easy-to-Use IoT Security Solution with Support for Updatability and Custom Applets EDGELOCK-A5000: EdgeLock® A5000 Plug and Trust Secure Authenticator: Authentication Made Secure, Scalable and Easy
Wireless	* KW41Z: Kinetis [®] KW41Z-2.4 GHz Dual Mode: Bluetooth [®] Low Energy and 802.15.4 Wireless Radio Microcontroller (MCU) based on Arm [®] Cortex [®] -M0+ Core
Wi-Fi + Bluetooth	* 88W8987: 2.4/5 GHz Dual-Band 1x1 Wi-Fi [®] 5 (802.11ac) + Bluetooth [®] 5.2 Solution * 88W8997: 2.4/5 GHz Dual-Band 2x2 Wi-Fi [®] 5 (802.11ac) + Bluetooth [®] 5.3 Solution
loT Radio	* JN5189_88_T: JN5189/88 (T): High-Performance and Ultra-Low-Power MCUs for Zigbee [®] and Thread with Built-In NFC Option
NFC Reader	PN7160: NFC Plug and Play Controller with Integrated Firmware and NCI Interface

View our complete solution for Broadband Modem and Residential Gateway.

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

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