

Broadband Modem and Residential Gateway

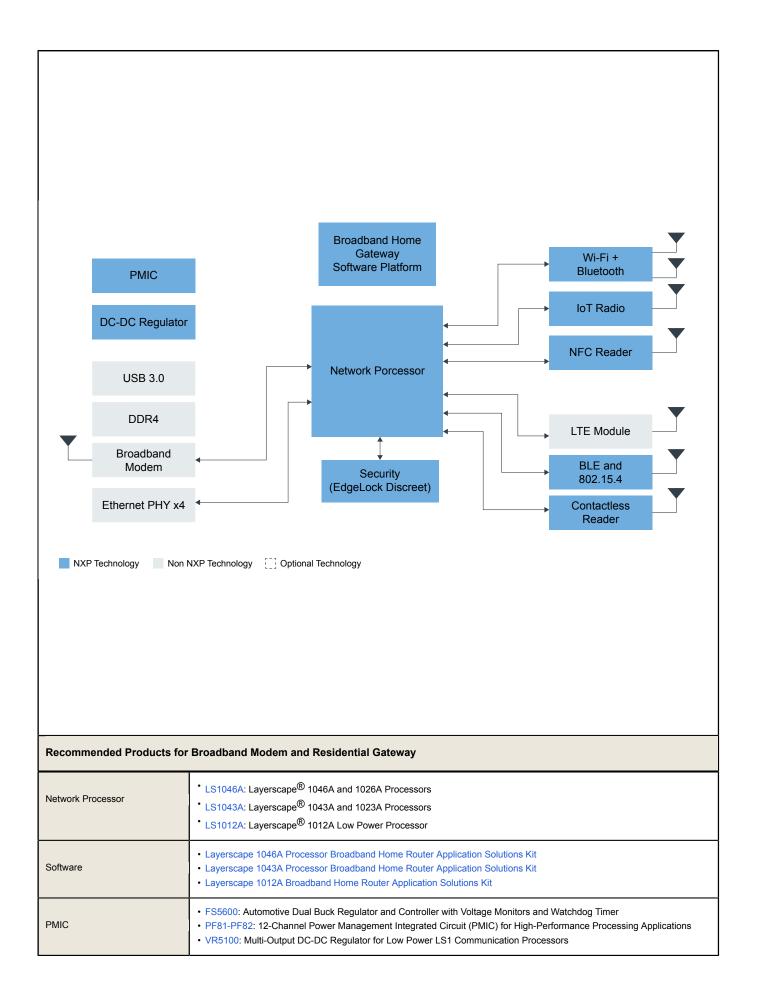
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A broadband (smart home) gateway is an appliance that delivers broadband data, voice and video services to a home or customer premises. It is the point of entry for Internet services to the home and its performance is key to the quality of experience 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: 統合型ファームウェアおよびNCIインターフェース搭載NFC Plug and Playコントローラ
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 & Trustセキュア・エレメント・ファミリー柔軟性に優れた、IoT向けの高度なセキュリティ SE051: EdgeLock[®] SE051: 更新機能とカスタム・アプレットのサポートを備えた実証済みで使いやすいIoTセキュリティ・ソリューション 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デュアルバンド1x1 Wi-Fi [®] 5 (802.11ac) + Bluetooth [®] 5.2ソリューション ・88W8997: 2.4/5 GHzデュアルバンド2x2 Wi-Fi [®] 5 (802.11ac) + Bluetooth [®] 5.3ソリューション
IoT 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: 統合型ファームウェアおよびNCIインターフェース搭載NFC Plug and Playコントローラ

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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