

PRODUCT BRIEF

Connected Home
Intel® AnyWAN™ SoC GRX350 Series and GRX550 Series



Intel® AnyWAN™ SoCs for Broadband Home Gateways

Maximize investments across connected home devices



The Intel® AnyWAN™ SoC GRX350 Series and GRX550 Series are well suited for mid- and high-end home gateways and routers. These network processors use the same peripheral interfaces, enabling the reuse of existing software across a wide range of applications, including any kind of gateway, router, or other home infrastructure device. This allows equipment and service providers to extend the value of their infrastructure investments and more smoothly upgrade existing designs.

A multicore network processing unit (NPU) subsystem, combined with hardware acceleration and the integration of all standard features into a single device, make the Intel AnyWAN SoC GRX350 Series and GRX550 Series powerful and compact gateway-on-a-chip solutions. They include various architecture features that help improve quality of service and allow for the integration of hardware-based virtualization.

Target applications

- VDSL2/35b and VDSL2/35b bonding gateways
- Ethernet router
- LTE gateway
- G.fast gateway
- GPON and fiber gateways
- Broadband gateway
- Smart home gateway

Key interfaces

- Gigabit Ethernet
- Integrated 802.11n Wi-Fi
- RGMII Gigabit interface
- DDR3
- Serial flash/8-bit NAND flash memory
- PCI Express* 2.0
- USB 3.0/2.0 host
- Support for two Foreign Exchange Station (FXS) ports
- Intel® SLIC for linecards includes interface for Intel® SLIC for CPE
- Dedicated DECT/CAT-iq/DECT Ultra Low Energy (ULE) interface
- TDM/PCM interface

Key features

- NPU with CPUs for maximum performance, flexibility, and security
- NPU speeds up to 2,620 MHz
- Integrated security for secure code execution, boot, and access control
- Enhanced packet acceleration with a combination of hardware acceleration and flexible, programmable multilevel processing engine.
- Hardware accelerated, carrier-grade quality of service (QoS)
- Integrated nonblocking Gigabit Ethernet switch with wire-speed switching
- Hardware acceleration for VPN/IPsec, TLS, storage, etc.
- Integrated, carrier-grade 802.11n Wi-Fi with extended reach
- Integrated DECT/CAT-iq with simultaneous operation of DECT ULE
- Support for VoIP
- Hardware-enforced security allows different operating systems to run on different cores

WLAN features

- Extended-reach Wi-Fi featuring any-client beamforming technology
- Embedded 802.11 bgn 2x2 and 3x3 (300) MIMO support for extended reach
- Intel® Direct Connect Accelerator for full CPU offloading with Intel® Home Wi-Fi Chipset WAV500 Series

WAN interfaces

The GRX350 Series and GRX550 Series can interface to the following:

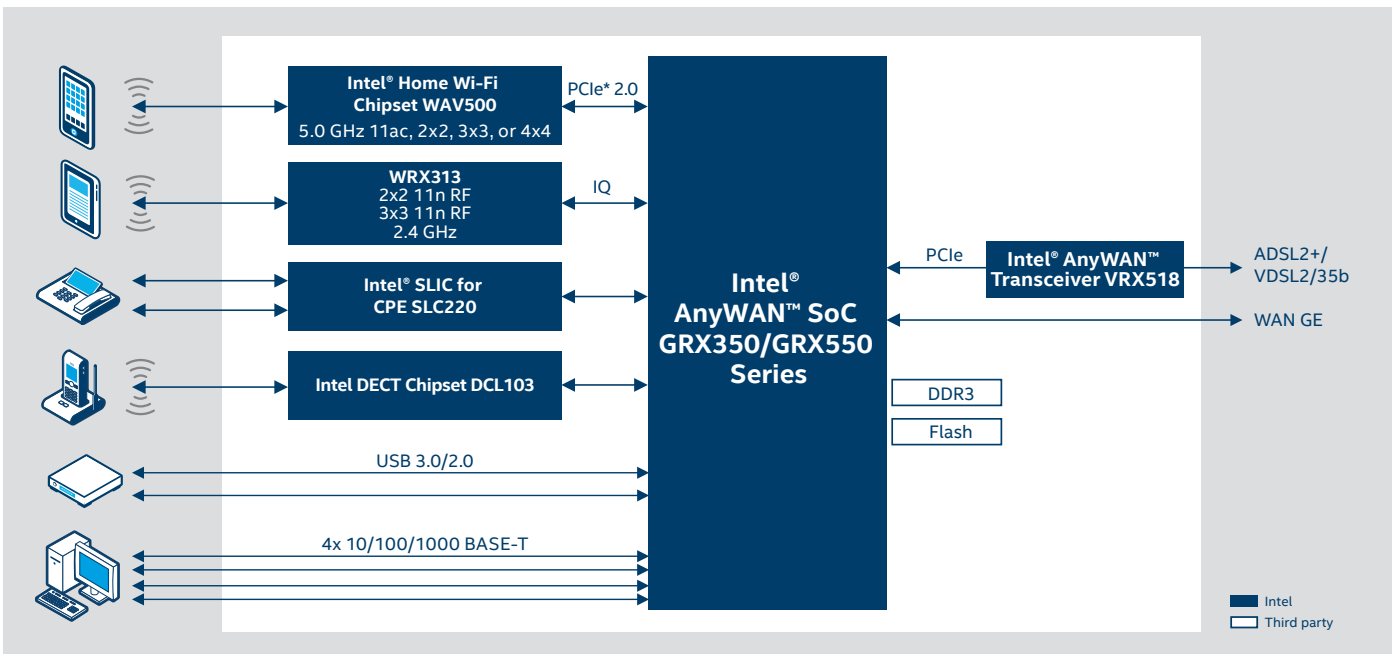
- Gigabit Ethernet WAN
- ADSL2+/VDSL2/35b
- VDSL2/35b bonding
- LTE WAN
- xPON
- G.fast
- MOCA

LAN interfaces

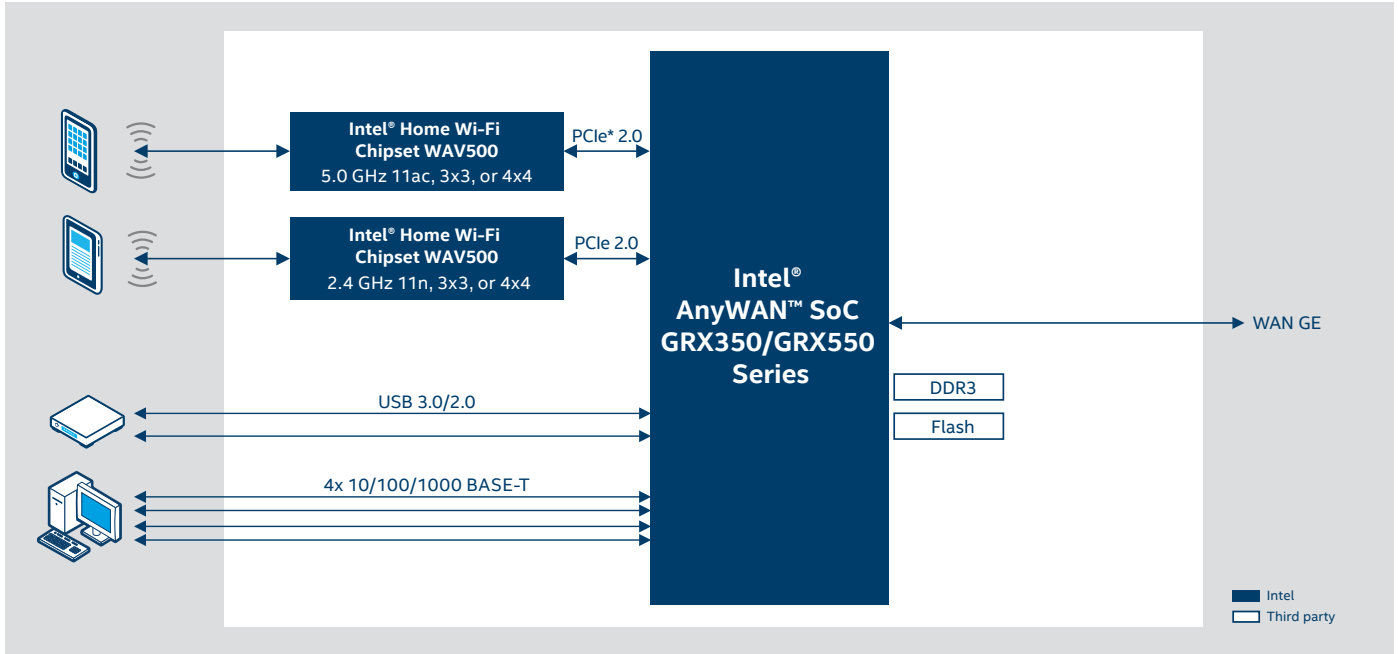
The GRX350 Series and GRX550 Series can interface to the following:

- Gigabit Ethernet
- Wi-Fi 2.4 GHz
- Wi-Fi 5.0 GHz
- FXS/FXO
- DECT/CAT-iq
- DECT ULE
- USB 2.0/3.0
- SATA*
- Powerline
- MOCA
- NFC
- Ability to interface to various PAN radio technologies

VDSL2 GATEWAY WITH AC1600 OR AC2000 WI-FI PERFORMANCE



RETAIL ROUTER WITH AC2300 OR AC2600 WI-FI PERFORMANCE



Product name	Sales codes	Package
Intel® AnyWAN™ SoC GRX350	PXB4395EL PXB3395EL1600	PG-LFBGA-413
Intel® AnyWAN™ SoC GRX550	PXB4583EL	PG-LFBGA-413



Learn more

For information on Intel® products for the connected home, visit [intel.com/connectedhome](https://www.intel.com/connectedhome).

Intel technologies' features and benefits depend on system configuration and may require enabled hardware, software or service activation. Performance varies depending on system configuration. Check with your system manufacturer or retailer or learn more at [intel.com](https://www.intel.com).

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