

CG3210 Chipset

HomePNA® Modem for Home AV Networks



Based on the ITU-T G.9954 standard (HomePNA® v3.1 specification), the CG3210 Chipset is the ideal solution for home AV networking - video, audio, data, and voice - over existing phone wires and coax cables.

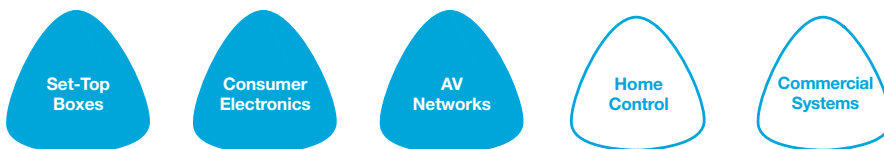
Featuring guaranteed QoS and Dynamic Bandwidth Allocation (DBA™), the CG3210 Chipset provides efficient utilization of network resources for multiple simultaneous streams of real-time high-definition video, audio, voice, and data in the presence of best effort data transfers. Our solution is the only AV Network solution that can coexist with VDSL on the same phone wires.

The CG3210 Chipset is comprised of two devices

- Digital MAC/PHY IC (CG3211)
- Analog Front-End IC (CG3213)

and offers a variety of interface options which make this chipset an ideal home AV networking solution.

Powering the new digital home



Target Markets

- Home AV networks
- Set-top boxes and CE products
- Residential gateways
- Optical network terminals (ONTs)
- Customer premises equipment (CPE)
- Ethernet to HomePNA® v3.1 bridges

Benefits

- Every in-home coax and phone jack can be a home network connection
- Payload rates up to 200 Mbps over coax, 140 Mbps over phone wires
- Guaranteed parameter-based QoS eliminates data collisions on the network
- Full control over network resource allocation
- Remotely monitor bandwidth and QoS compliance for every data flow
- Remote diagnostic testing for every path in network
- Installation support diagnostics with immediate visual performance indication
- Multi-band operation to enable coexistence with existing services
- Exceeds the HomePNA® 3 specifications for reach over home wiring topologies
- Direct Peer-to-Peer data transfers
- Convergence layer allows bridging (802.11 and Ethernet) with QoS intact
- Adapts to line conditions to compensate for impairments
- Data transfer rate independently maximized between every pair of clients

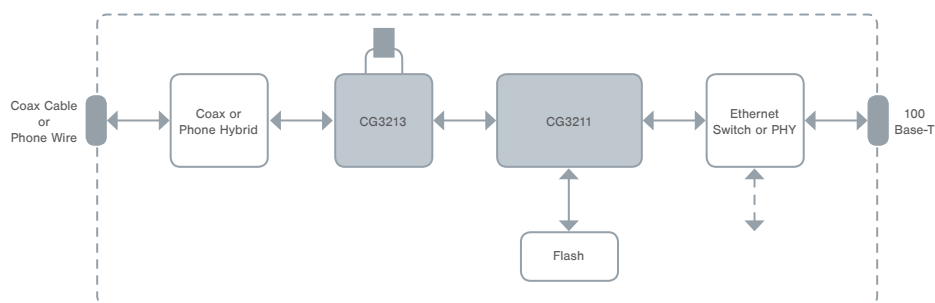
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HomePNA® Modem for Home AV Networks



Features

- PHY layer rate up to 320 Mbps
- Payload rates up to 200 Mbps over standard coax cables and up to 140 Mbps over standard phone wires
- Multi-band operation
- Synchronous MAC
- Guaranteed (parameter) and prioritized QoS
- Complies with ITU-T G.9954, HomePNA® v3.1; meets FCC parts 15 and 68
- Master and Endpoint application support
- MII, TurboMII, PHY host interfaces
- Integrated 10/100 Base-T Ethernet MAC
- Coexists with ADSL/ADSL2/ADSL2+, VDSL/VDSL2, ISDN, POTs
- Coexists with terrestrial and satellite TV
- Support for remote and local management and diagnostics
- Field-upgradeable firmware
- Implements complete HomePNA® protocol stack on chip
- Expandable internal packet buffer
- Industrial temperature range
- On-chip filtering reduces hybrid cost
- Low power consumption
- Uses standard Ethernet drivers



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