



The CG3210M Chipset is a version of the CG3210 Chipset that is optimized for MDU applications, including high data rates, multi-band operation, advanced synchronous MAC, and best of breed QoS.

Many MDU-specific features are included, such as advanced point-to-multipoint MAC operation, support for large numbers of Endpoints per Master device, privacy between clients, remote configuration of clients according to their Service Level Agreement, user admission control, remote management and diagnostics, and more, making it very attractive to service providers worldwide.

The CG3210M Chipset can be easily integrated into Optical Network Terminal (ONT) and DSL gateway equipment, as well as enable the design of low-cost Ethernet bridge Endpoint devices for installation in individual units. This allows the WAN access network bandwidth to be shared among the MDU's units.

Benefits

- Enables service providers a fast and easy migration to bi-directional, digital broadband services
- Enables the cost-effective provisioning of advanced Triple-Play services such as IPTV, VOD, VoIP, and Broadband Internet Access
- Creates new revenue opportunities for service providers
- Huge cost savings compared to alternative solutions such as DOCSIS, DSL, and Ethernet cabling
- Speedy deployment - no new wires; uses existing coax wires and splitters, in parallel with existing RF video broadcast services
- Enables self-installation of in-home End points by the consumer

Chipset Features

- Same chipset for Master and Endpoint design
- Built-in MII PHY host interfaces
- Built-in 100 Base-T Ethernet MAC
- Internal packet processor and buffer, no need for external processor
- JTAG IEEE 1149.1 test port
- Industrial temperature range

Powering the new digital home



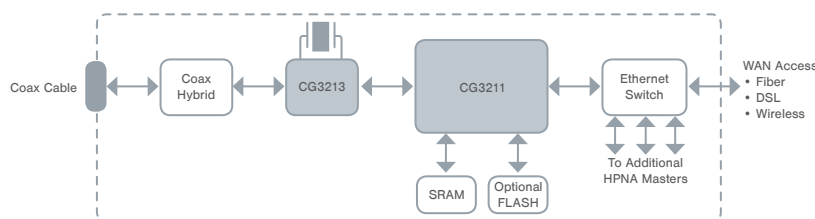
Network Features

- Robust operation above 65 dB (over 1,000 meters) end-to-end attenuation (cable & splitters)
- 190 Mbps effective data rate per band
- Point-to-multipoint topology; up to 62 Endpoints per Master per band
- Advanced TDMA, CSMA/CA MAC protocol
- Low latency and jitter
- Advanced guaranteed and prioritized QoS
- Efficient support of broadcast, multicast, unicast, and VLAN routing schemes
- Supports CBR, VBR, and best effort data streams
- Supports IPv6 protocol
- Field-upgradeable firmware

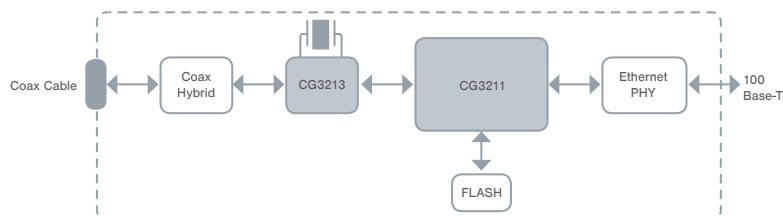
Security Features

- Absolute client to client privacy
- Support AES based encryption
- Advanced device admission & connection control
- Dynamic configuration of clients according to Service Level Agreement (SLA)
- Supports DSLF TR-69
- Local & remote network monitoring and logging tools
- Supports IGMP/MLD snooping and filtering

Typical MDU Master Device Block Diagram



Typical MDU Endpoint Block Diagram



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