



Look Inside.™

32-Channel DOCSIS* 3.0 Gateway



Delivering high speed broadband at up to 1.6Gbps

In the past 15 years, broadband speeds have increased more than 900% — and cable service providers have been at the forefront, delivering DOCSIS* 3.0 platforms. But consumers want more. From Smart TVs to television on laptops consumers are connecting more devices to the Internet and demanding faster broadband connections. The 32-channel DOCSIS* 3.0 Intel® Puma™ SoC combined with the 32-channel MxL268 Full-Spectrum Capture* tuner helps cable system manufacturers meet demand for faster broadband speeds, supporting data rates up to 1.6 Gigabits per second (Gbps).

Easily extend engineering investments with pin-compatible upgrade path and DOCSIS 3.1 capability

Intel and MaxLinear were the first to deploy 16- and 24-channel DOCSIS* 3.0 technology and are extending that innovation into 32-channel cable gateways and modems. By bonding up to 32 DOCSIS* 3.0 channels, the system design delivers 33% more downstream bandwidth in the same power envelope and provides a pin-compatible upgrade path from 16 to 24 to 32 channels. Providing a unified Intel® Puma™ 6 SoC development environment for every speed node allows service providers to seamlessly extend their current gateway investments.

Forward-looking capabilities

The 32-channel DOCSIS* 3.0 Intel Puma 6 SoC solution allows OEMs to easily take advantage of the new platform without reengineering or recertifying. In addition, this solution provides future network compatibility with DOCSIS* 3.1, which includes a requirement for up to 32 single carrier QAM channels. The first generation of DOCSIS* 3.1 is expected to deploy over the next few years and will let cable providers deliver up to 5 GB of downstream bandwidth.

FEATURE	BENEFIT
Intel® Atom™ Processor	Advanced processing power with low power usage for energy efficiency
DOCSIS* 3.0	Established standard that significantly increases upstream and downstream transmission speeds

For more information about the 32-Channel DOCSIS* 3.0 Gateway Solution, contact your Intel representative.

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