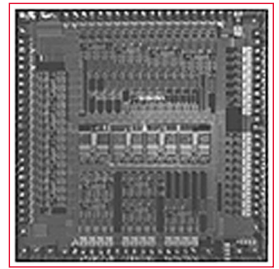




PROPANE[™] PRODUCT Brief



PROPANE[™] DOCSIS/EURODOCSIS ACCELERATOR SOFTWARE

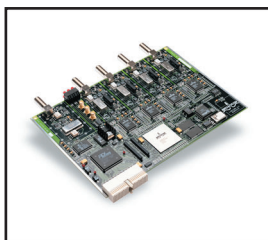
PROPANE FEATURES

- Broadcom PROPANE[™] is an advanced transport technology for DOCSIS/EuroDOCSIS-based cable systems
- Triples the upstream capacity and is fully compatible with DOCSIS/EuroDOCSIS-based systems
- Independent of physical layer technology and fully scalable to emerging advanced physical layer technology.
- Provides full compatibility with Broadcom's entire family of integrated DOCSIS/EuroDOCSIS silicon solutions for both the cable modem and cable modem termination system (CMTS)

SUMMARY OF BENEFITS

- Cable systems using end-to-end Broadcom DOCSIS/EuroDOCSIS technology with PROPANE benefit from increased capacity, improved efficiency, and lower latency throughout the cable plant
- PROPANE's increased capacity enables:
 - Three times as many customers on a single upstream
 - Three times as many phone lines
 - Faster Internet access and reduced round-trip delay for interactive services
- Reduces capital expenditures by increasing the number of subscribers supported by a fiber node before reaching saturation
- Continues to triple capacity as fiber nodes are split

Cable Service Provider



Broadcom based
DOCSIS/EuroDOCSIS
CMTS
with PROPANE

PROPANE[™] 3x More Capacity

- Improved Efficiency
- Reduced Latency

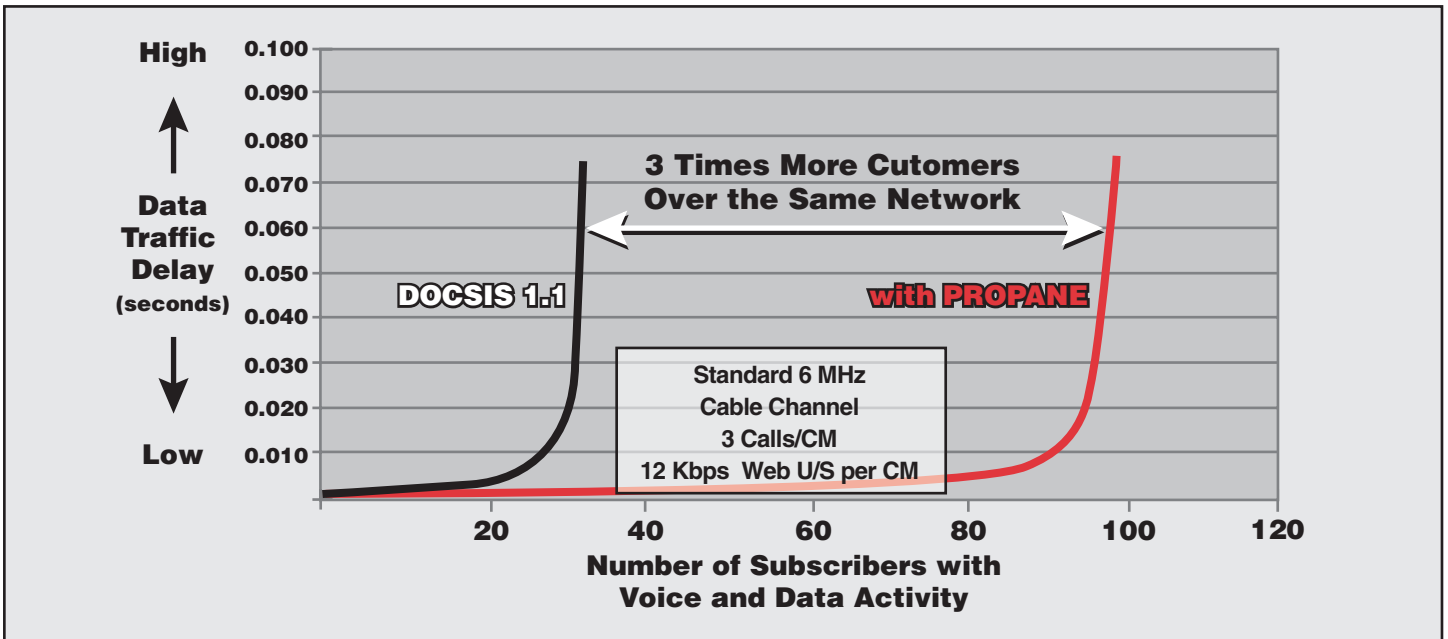
Cable Modem



Broadcom based
DOCSIS/EuroDOCSIS
Cable Modem
with PROPANE

Home/
Business
Network

PROPANE OVERVIEW



Revolutionizing Capacity

PROPANE™ is a revolutionary technology that dramatically increases broadband network capacity. Operating exclusively with Broadcom DOCSIS/EuroDOCSIS silicon, **PROPANE** increases capacity and reduces delay by using patent-pending efficiency and latency reduction algorithms for optimal transmission of voice and data over broadband pipes.

PROPANE is based on application-aware, streaming architecture that significantly reduces overhead to increase throughput and reduce latency.

With Broadcom **PROPANE**, the cable operator can triple the capacity of the shared return path compared to conventional DOCSIS/EuroDOCSIS modems. This valuable extra capacity enables MSOs to provide:

- More data bandwidth per user
- More voice channels per modem
- More users per fiber node

Scalable Solution

PROPANE software dramatically increases last-mile capacity of the existing broadband network. This increased capacity becomes even more important when future node splits are required due to total subscriber growth. In high-growth markets cable operators often implement quad-splits, so that four fiber nodes service the same area that a single node served before the split. When this happens, **PROPANE** benefits scale right along with it. **PROPANE** enables a 3× increase in reverse path capacity as the network grows. In many cases, these future capital requirements can also be subscriber funded. Adding **PROPANE** to the initial system allows the MSO to increase subscribers and revenue without significant capital outlays—providing advance funding for future node splits and other network upgrades.

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