



## Harmonic's New Multifunction Broadcast Gateways Enable Cable Operators to Access and Distribute Programming; Compact System Supports HD and SD Digital Television

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LAS VEGAS, Apr 8, 2002 (BUSINESS WIRE) -- Harmonic Inc. (Nasdaq: HLIT) today introduced the Broadcast Network Gateway (BNG) family which enables MSOs to more cost-effectively access and distribute programming. Cable operators may use the space and power efficient gateways to source high definition (HD) and standard definition (SD) content from both premium and local off-air channels while preserving the picture quality within the digital domain. The multifunctional gateways provide a variety of inputs and outputs including Gigabit Ethernet, DVB-ASI and QAM RF.

The BNG 6000 series is a powerful building block that can increase the functionality, flexibility and scalability of cable broadcast networks around the world. The all-in-one, single rack unit (RU) gateway serves applications requiring digital turnaround, scrambling, modulation and upconversion.

"Attracting and retaining subscribers typically requires the constant enhancement of premium services and local channel support. That can be a very challenging and expensive proposition for the MSO. The BNG 6000 series simplifies the infrastructure used to access and distribute programming while enhancing the economics with a 'pay as you grow' deployment model," said Dr. Yaron Simler, President of Harmonic's Convergent Systems Division. "The highly integrated design gives cable operators a cost-effective solution with fewer components, less space and power requirements and therefore a simpler, more elegant network architecture."

Once deployed, BNG gateways are easily managed and monitored. The BNG can be administered as a standalone system using a simple web-based tool or as part of the complete solution via Harmonic's network management system. The BNG 6000 series will begin shipping in the second quarter of 2002.

### BNG Supports Multiple Emerging and Existing Applications for MSOs

The systems support several emerging and existing applications that can enhance the subscribers' overall experience and increase the MSO's revenue potential. A key initial application for the BNG is the digital cable turnaround of premium channels from satellite and free off-air ATSC television feeds (HD and/or SD). In this application, programming is sourced via the four ASI inputs and then distributed from two outputs which are either DVB-ASI or QAM RF. The DVB-ASI outputs feed premium channels to downstream scramblers while the 256 QAM RF outputs can feed free-from-air signals to an HFC plant. The digital turnaround application will be demonstrated at Harmonic's stand at NAB 2002 in Las Vegas.

In a modulation application, the BNG can act as a modulator/upconverter with four QAM RF outputs. In a centralized system, the BNG provides a dense modulation solution. In a distributed system, it can provide an inexpensive means of changing frequency mapping. The BNG 6000 series also supports DVB scrambling applications and makes the perfect companion to a rate changer or digital splicer to scramble and modulate the output.

At the regional headend or hub the BNG requires minimal rack space and excels as a transport edge device. With either DVB-ASI or GbE inputs, the BNG supports both existing fixed or switched network transports. As an edge device for MPEG-over-IP distribution networks, the BNG works equally well with an ATM-based or native IP-based transport.

### About Harmonic Inc.

Harmonic Inc. is a leading provider of digital video, broadband optical networking and IP delivery systems to cable, satellite, telecom and broadcast network operators. Harmonic's open standards-based solutions for the headend through the last mile enable customers to develop new revenue sources and a competitive advantage by offering powerful interactive video, voice and data services such as video-on-demand, high definition digital television, telephony and Internet access.

Harmonic (Nasdaq: HLIT) is headquartered in Sunnyvale, California with R&D, sales and system integration centers worldwide. The Company's customers, including many of the world's largest communications providers, deliver services in virtually every country. Visit [www.harmonicinc.com](http://www.harmonicinc.com) for more information.

This press release contains forward-looking statements, including, but not limited to, statements concerning the benefits of the BNG product line, increasing the functionality, flexibility and scalability of cable networks, and shipment of BNG in the second quarter of 2002, within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. In addition, actual results could differ materially from those projected in the forward-looking statements as a result of the risk factors set forth in documents that Harmonic files with the SEC, including reports on Form 10-K and 10-Q.

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