



# Intel® Next-Gen Wireless-N

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**Multiply Your Wireless Experience  
Connect With Confidence**


# What We're Announcing Today



**Connect with Centrino®**  
*Connect with Confidence*

**Intel® Next-Gen Wireless-N**  
*Multiply Your Wireless Experience*



A silhouette of a person standing on a balcony, looking at a laptop. The balcony has a stone floor and a glass railing. In the background, there is a cityscape and a swimming pool. The sky is clear and blue.

**What is IEEE 802.11n/Draft-N?**

**Why ship Draft-N products now?**

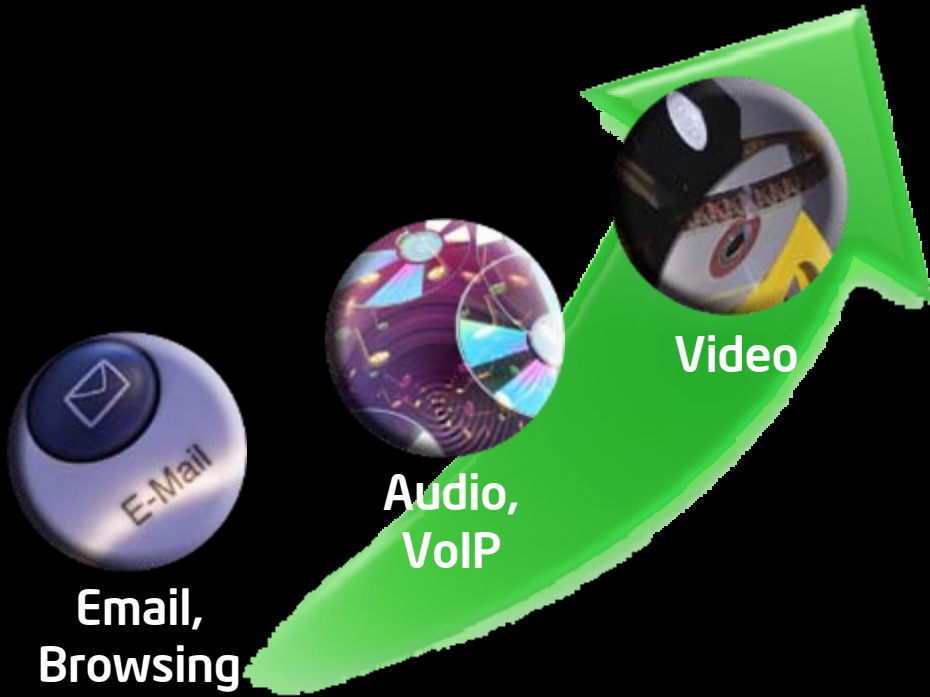
**What is Connect with Centrino®?**

**What is Intel Next-Gen Wireless-N's product?**



# Anytime, Anywhere Connectivity Vision

## Applications



Email,  
Browsing

Audio,  
VoIP

Video

Home, On the Road, Office

## Technology Demands

*Battery*



*Performance*



*Form Factor*



*Wireless*



# 802.11n Technology

Greater Performance And Range Achieved By Three Technologies

1. **Multiple Input Multiple Output (MIMO)** technology uses multiple radio streams to transfer more data



# 802.11n Technology

Greater Performance And Range Achieved By Three Technologies

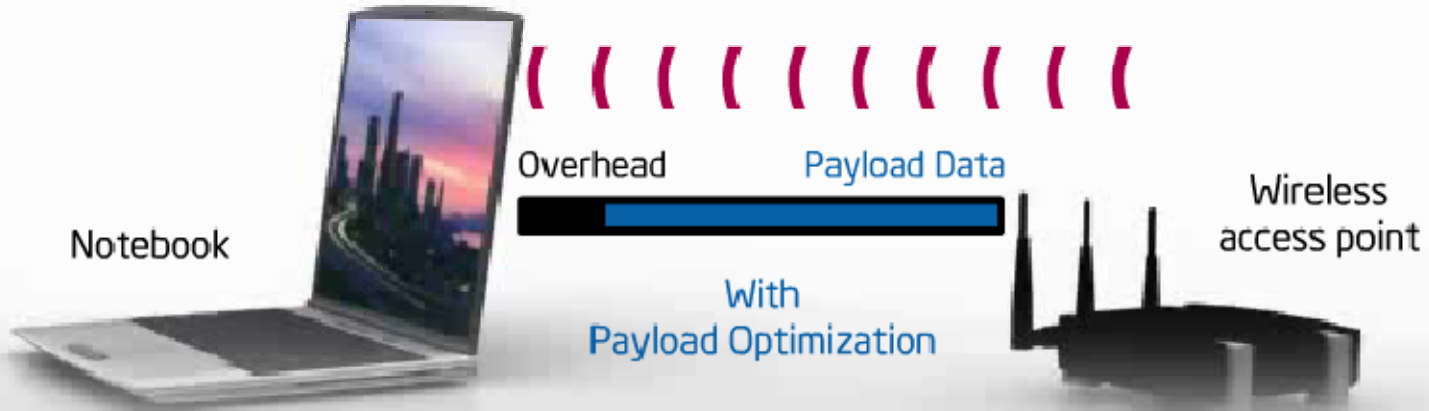
2. **Channel Bonding** combines two 20 MHz channels to transfer twice the data



# 802.11n Technology

Greater Performance And Range Achieved By Three Technologies

## 3. Payload Optimization delivers more wireless data per transfer



# Why Now?

## Standards and Events Timeline

**Industry Stalled**

**Negative Press**

**Industry alignment  
Rigorous testing**

**Standards convergence**

Enhanced Wireless Consortium (EWC) announced, spec available

EWC spec approved as Letter Ballot 1.0

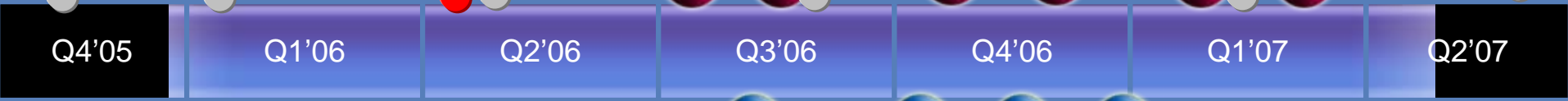
Letter Ballot 1.0 fails confirmation and collects 11K+ comments

**First Draft-N products ship**

Wi-Fi Alliance (WFA) announces plan to certify pre-standard 802.11n products

Comments ratified unanimously (100-0)

Wi-Fi Alliance certification



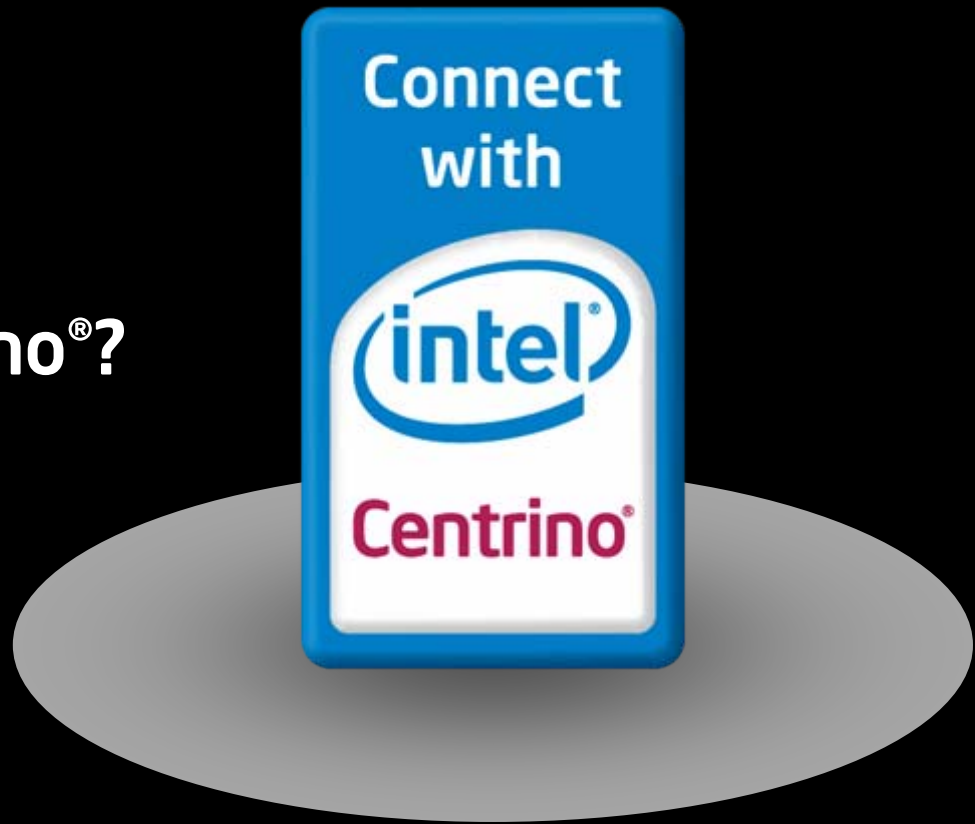
 Wi-Fi Alliance Plugfest

 Connect with Centrino Interop Events





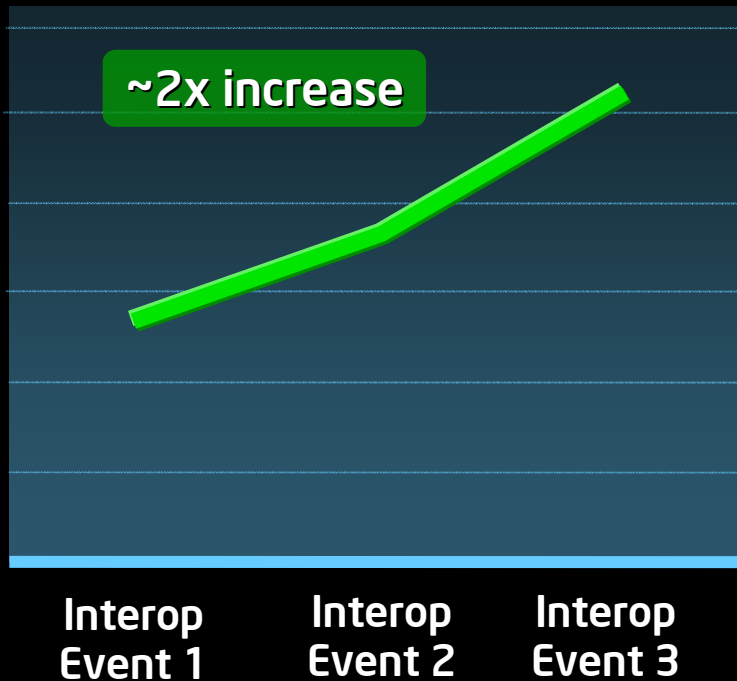
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Connect with Centrino®?**



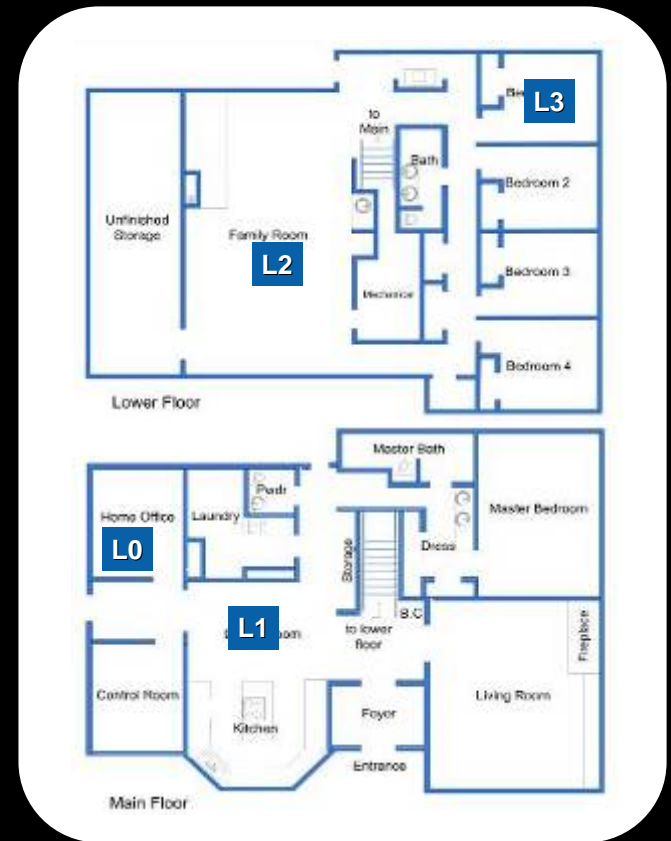


# Draft-N Performance Improvement

Average Throughput



Test Home Floor Plan



Significant Improvement In Draft-N Performance  
As A Result Of 3400 Tests Executed



# "Connect with Centrino" Logo and Participants



**D-Link**  
Building Networks for People



**NETGEAR**



**BUFFALO**



**ASUS**  
Rock Solid - Heart Touching

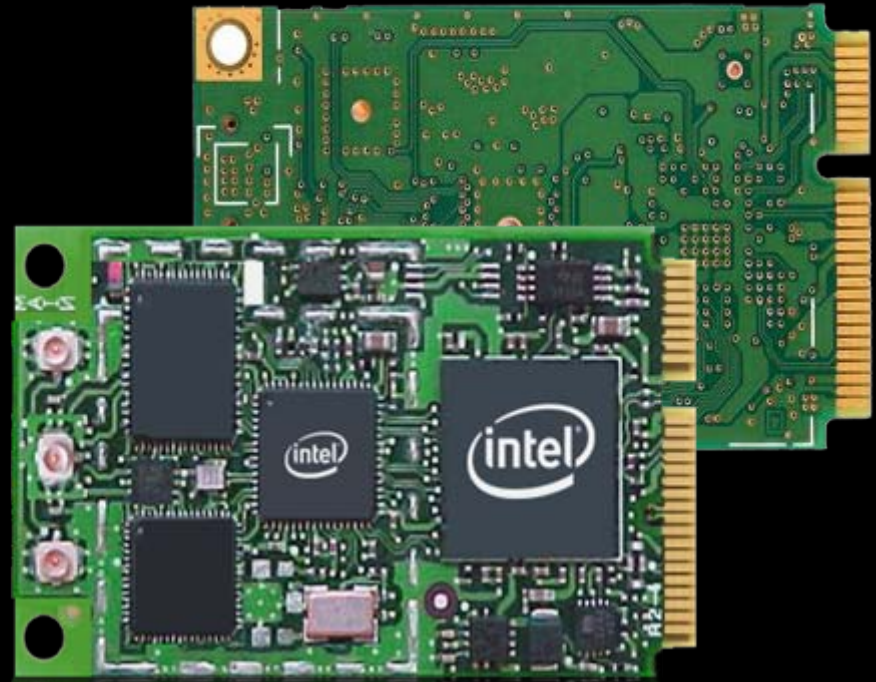


**BELKIN**

**Connect with Confidence**  
**High Throughput**  
**Industry Leadership**  
**"Whole Home" Coverage**



# Why Intel Next-Gen Wireless-N?



# Introducing Intel® Next-Gen Wireless-N

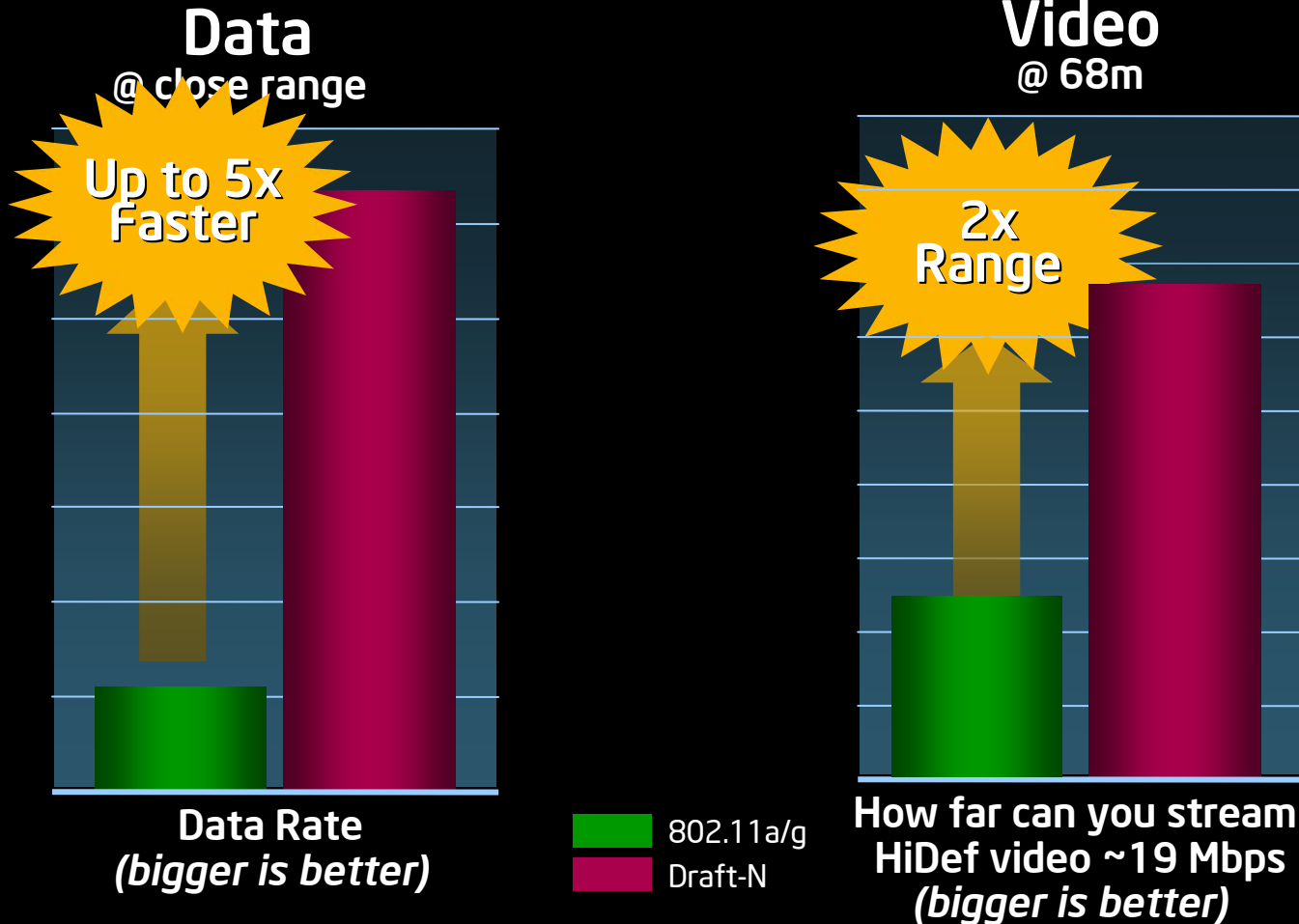
- Up to 5X Throughput, 2X Range\*
- Up to 1 extra hour battery life\*
- Supports Both 2.4GHz and 5GHz
- Stream High-Definition Video and Audio



Performance compares preproduction hardware to prior generation Intel components. Graphics performance measured by 3DMark06. Power savings (average power) compared to previous generation Intel components. Actual performance may vary. See [www.intel.com/performance](http://www.intel.com/performance) for details.



# What Does Intel's Next-Gen Wireless-N Do For You?



\*Based on the theoretical bandwidth maximum enabled by 2x3 Draft N implementations with 2 spatial streams. Actual throughput will vary depending on your specific operating system, hardware and software configurations. Check with your PC manufacturer for details.







# Enhancing Your Digital Life

Do It All Simultaneously... *With Bandwidth To Spare!*



# Product Availability

## Notebook Vendors

**ASUS**  
Rock Solid - Heart Touching

Connect  
with

**Gateway**

**acer**

**TOSHIBA**

**intel**  
Centrino

**ASUS**  
Rock Solid - Heart Touching

**NETGEAR**

## Access Point Vendors

**BELKIN**

**BUFFALO**

**D-Link**  
Building Networks for People

Available On Centrino® Duo Systems Beginning End Jan'07  
More Coming with Santa Rosa in Q2'07  
Check Out [www.intel.com/centrino](http://www.intel.com/centrino)



# Summary

Industry Convergence to Draft-N

Connect with Centrino<sup>®</sup>,  
Connect with Confidence

Get Wireless-N to Multiply Your  
Wireless Experience

Available End Jan 2007





# Q & A

