



Unwire Yourself

Introducing the Intel® Ultimate N WiFi Link 5300

Intel® Ultimate N WiFi Link 5300

World's 1st 450 Mbps Wi-Fi Adapter

Unrivaled Performance



- 450 Mbps Data Rate
- 8X Bandwidth Increase[□]

Innovative Security and Manageability



- Discover, Heal, and Protect with Intel® Active Management Technology

Power-Efficient Architecture







- <50 mW Power Consumption[‡]



Best-in-Class** Wi-Fi Technology



A Brief Look Back Technology Trends

		Then	Now
Digital Camcorders ¹		Standard Definition	High Definition
Digital Cameras ²		1-3 Megapixel	7-10 Megapixel
Portable Media Players		Music 10-20 GB	Music/Video/ Pictures 100+ GB
Wireless Networking		802.11g 54 Mbps	802.11 Draft-N 300-450 Mbps

***Digital media continues to grow
Wi-Fi performance increases exponentially***

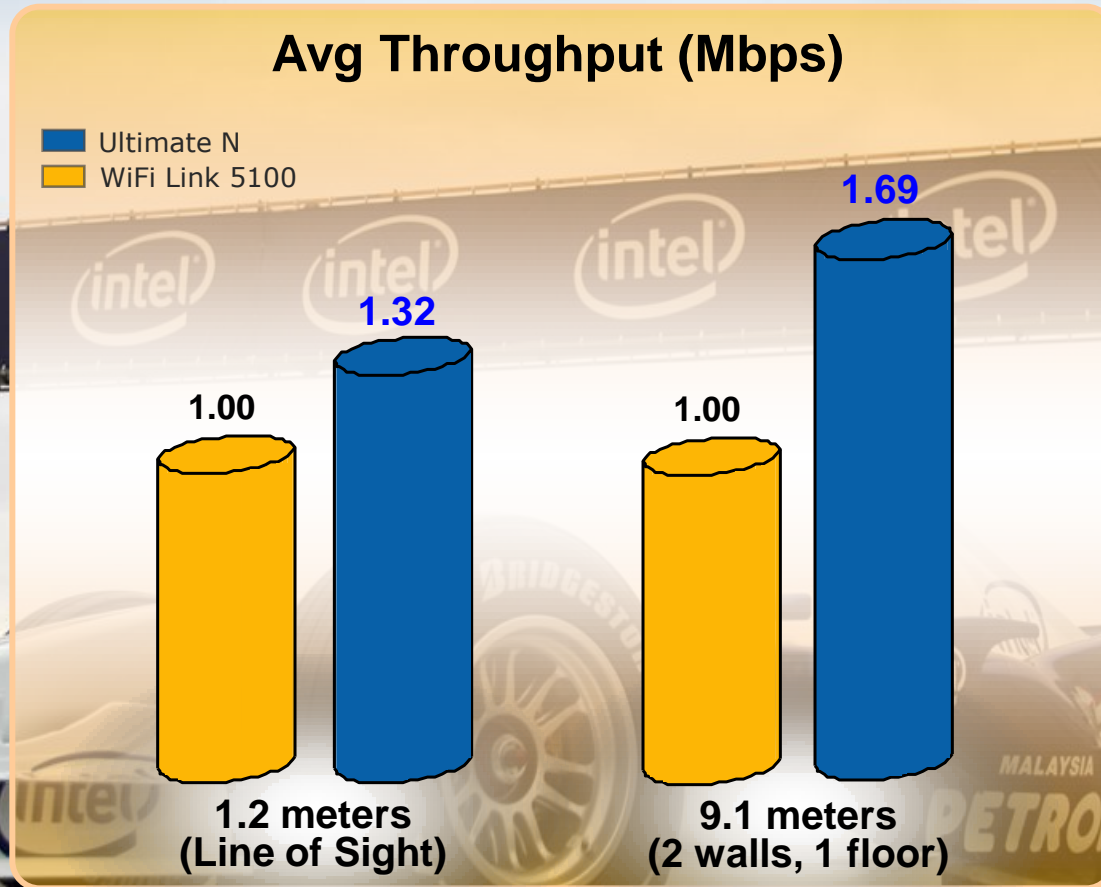
¹ Source: IDC Nov. 2007

² Source: Consumer Electronics Association Jan. 2008



Unrivaled Performance

Intel® Ultimate N WiFi Link 5300 on today's Access Points



Maximize your performance with Intel's Ultimate N adapter



* Other names and brands may be claimed as the property of others

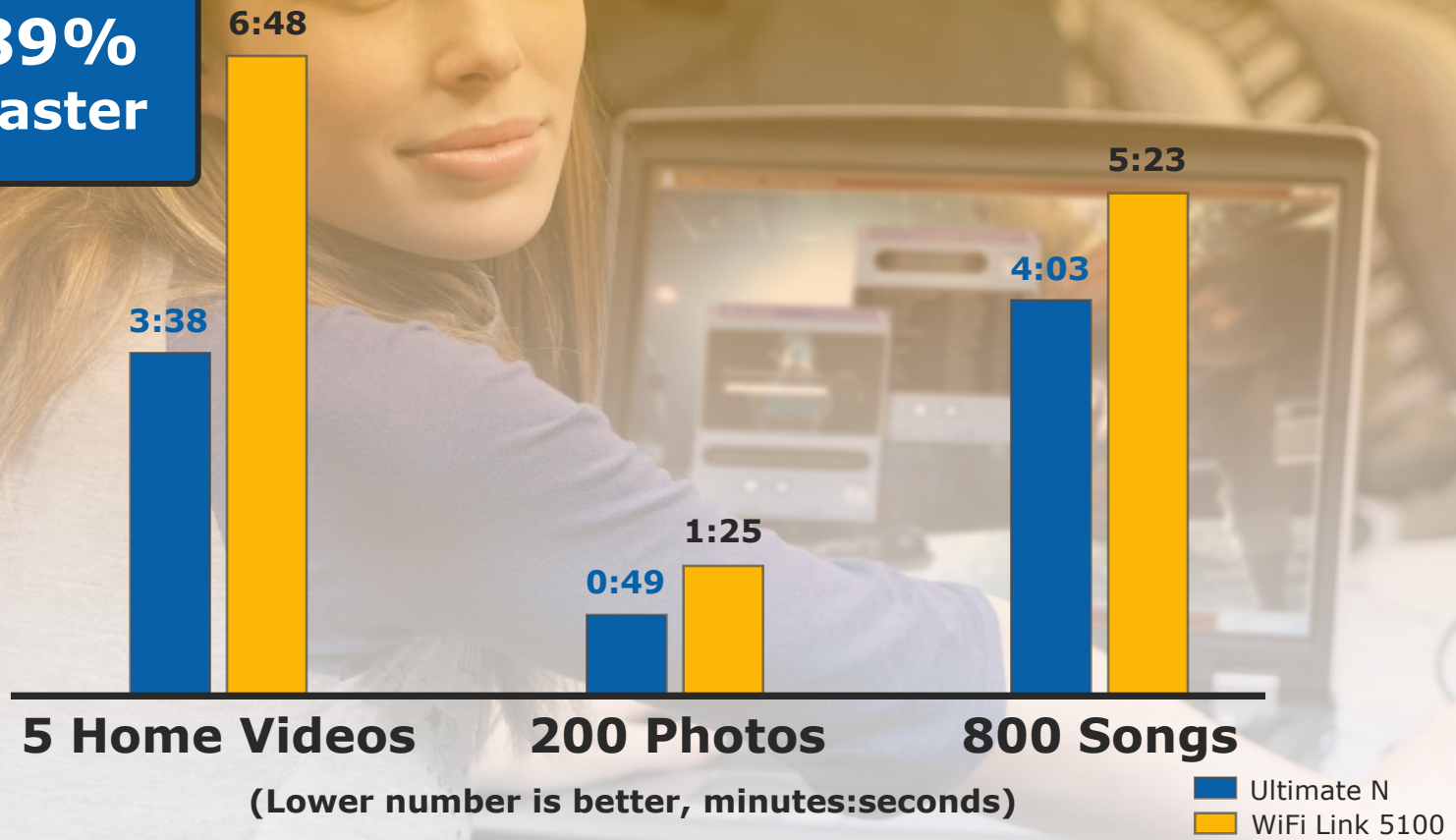


Delivering Real World benefits today . . .



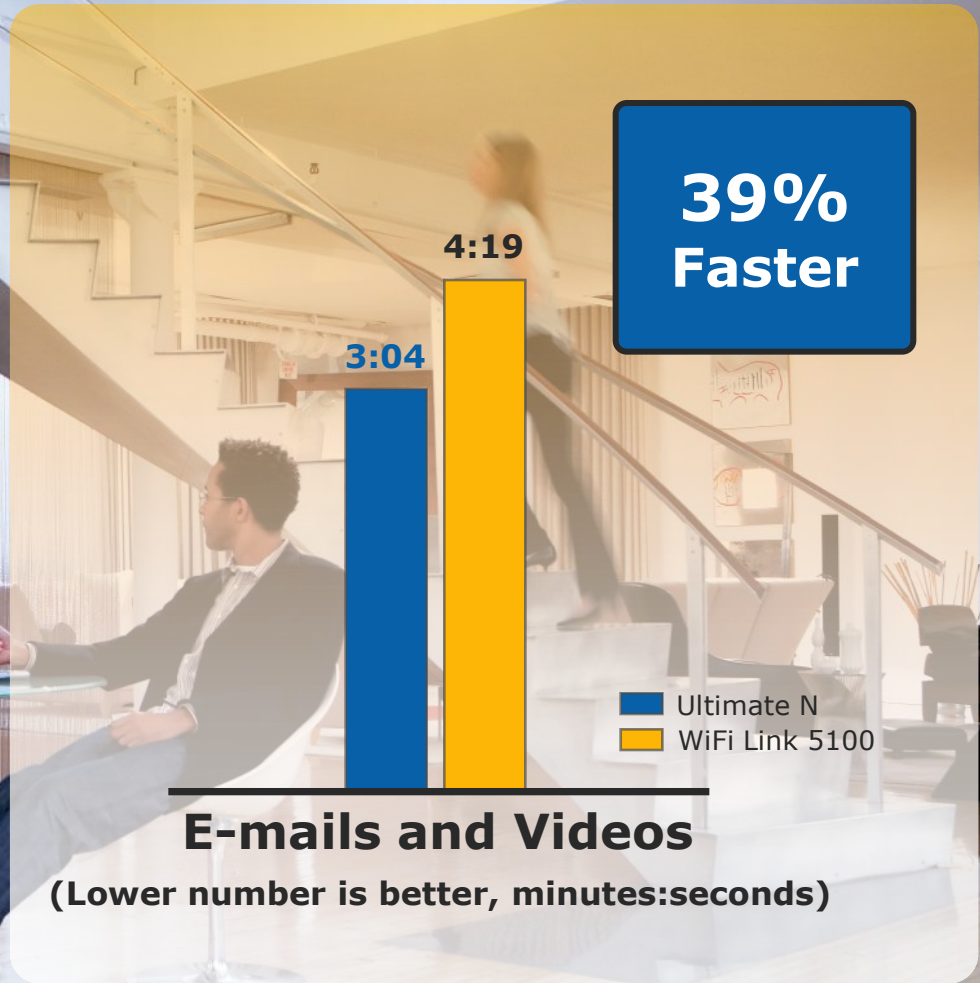
Faster File Copies

**89%
Faster**



Stop waiting, start living

Quicker E-Mail and Video Backups

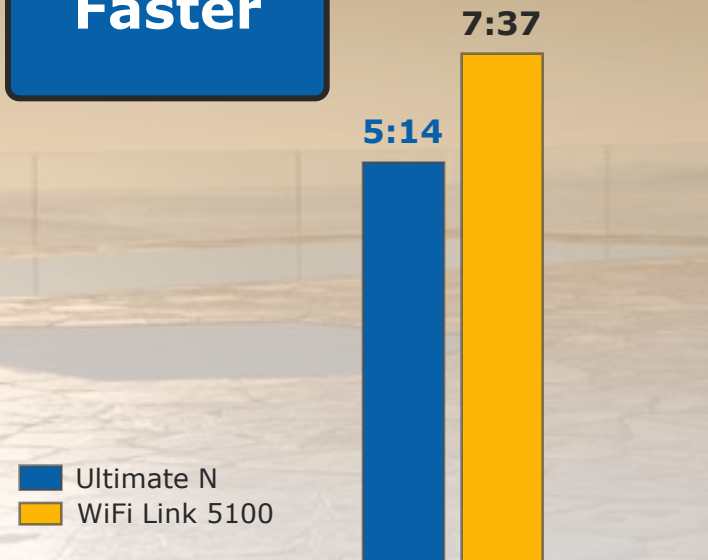


Faster backups, higher productivity

Better Throughput at Greater Distances

**46%
Faster**

Across 2 Walls
and 1 Floor



■ Ultimate N
■ WiFi Link 5100

5 Home Videos

(Lower number is better, minutes:seconds)

Faster connections in more places



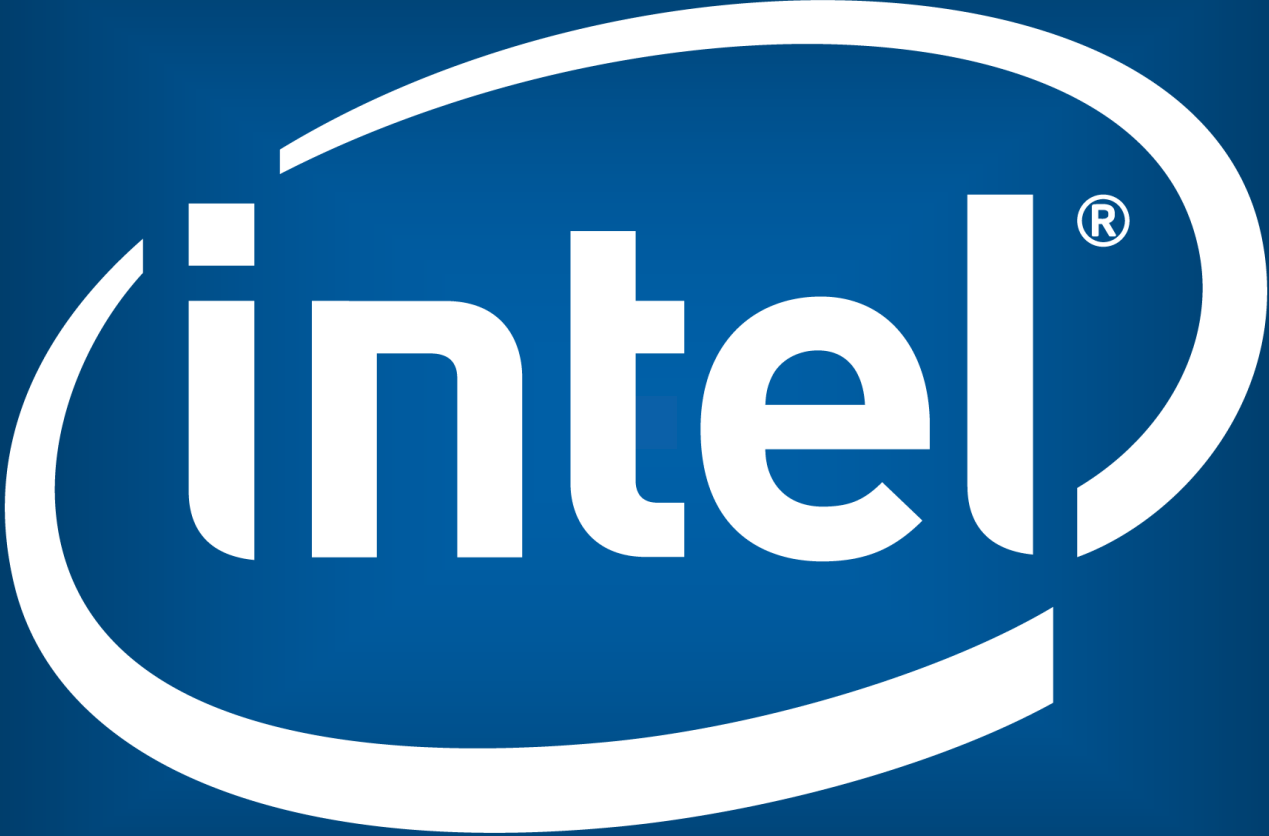
**... and even Faster Speeds
with tomorrow's 450 Mbps Access Points.**



For the Best in Wi-Fi, ask for the **Intel® Ultimate N WiFi Link 5300**

- World's 1st 450 Mbps Wi-Fi adapter
 - Up to 8X Bandwidth increase[□]
- Unrivalled Performance
 - Copy/Backup files in less time
 - Better Throughput at Greater Distances
- Faster speeds with tomorrow's 450 Mbps Access Points
- Available only on Intel® Centrino® 2 or Intel® Centrino® 2 with vPro™ notebooks





Intel® Ultimate N WiFi Link 5300

Additional Resources

Web Link	Description
Product Home Page	Intel® WiFi Link 5000 Series Product page
Product Brief	Intel® Ultimate N WiFi Link 5300 and WiFi Link 5100 product brief
Intel WLAN Customer Support	Intel WLAN Customer Support page
Intel® Ultimate N WiFi Link 5300 Animation	Executable animation showing the benefits of the Intel® Ultimate N WiFi Link 5300 in a home environment
Connect with Intel® Centrino®	Connect with Intel® Centrino® Processor Technology program page
Intel® Centrino® 2 Wireless Animation	Executable animation showing the wireless benefits of the Intel® Centrino® 2 processor technology platform

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- ** Best in Class Wi-Fi Technology refers to 802.11 Draft-N Wireless Adapters that utilizes 3 Transmit Spatial Streams and 3 Receive Spatial Streams.
- □ Up to 8X Bandwidth increase based on the theoretical maximum bandwidth enabled by 3x3 Draft-N implementations with 3 spatial streams in combination with a 3 spatial stream Access Point. Actual wireless throughput and/or range will vary depending on your specific operating system, hardware and software configurations. Check with your PC manufacturer for details.
- ± < 50 mW Power Consumption refers to the average power consumption of the Intel WiFi Link 5300 and WiFi Link 5100 when in an Idle Associated state.
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Benchmark Disclaimers

- Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, visit [Intel Performance Benchmark Limitations](#).
- Relative performance for each benchmark is calculated by taking the actual benchmark result for the first platform tested and assigning it a value of 1.0 as a baseline. Relative performance for the remaining platforms tested was calculated by dividing the actual benchmark result for the baseline platform into each of the specific benchmark results of each of the other platforms and assigning them a relative performance number that correlates with the performance improvements reported.

Laptop PC Configuration

Intel® Centrino® 2 Processor Technology Laptop	
Processor	Intel® Core™2 Duo Processor P8400 (2.26 GHz, 3 MB L2 cache, 1066 MHZ FSB)
Chipset	Intel® GM45
Graphics	Intel® Graphics Media Accelerator 4500 MHD
Memory	1 GB DDR3-1066 MHz
Operating System	Microsoft Windows Vista* Business 32-bit
Wireless LAN	Intel® Ultimate N WiFi Link 5300 Driver 12.0.0.82 Intel® WiFi Link 5100 Driver 12.0.0.82
LAN	Marvell Yukon* 88E8055 PCIe GbE
HDD	Fujitsu 80 GB 5400 rpm
Optical Drive	Modular dual-layer multi-format DVD writer
LCD	14.1" Crystal View Wide XGA, 1280 x 800, 16 M colors
Battery	6-cell Lithium Ion, 10.8 V, 5800 mAh
BIOS	v.1.11 with default settings
Graphics Driver	Intel® v.7.15.0010.1502 English

Benchmark Disclaimers

- DUT on battery power with default power management settings
- Performance testing performed using Chariot* Console v.6.0 with Chariot Endpoint v.6.1 unless specified otherwise
- “Unrivaled Performance, Intel® Ultimate N WiFi Link 5300 ...” slide
 - D-Link* DIR-855 802.11 Draft-N Access Point; FW v.1.11, 5.0 GHz, 40 MHz channel, Channel (36,1)
 - Intel SCH Test Facility: Location 0
 - NETGEAR* WNR3500 802.11 Draft-N Access Point; FW v.1.0.14, 2.4 GHz, 20 MHz channel, Channel 6
 - Intel SCH Test Facility: Location 2
- “Faster File Copies” slide
 - D-Link* DIR-855 802.11 Draft-N Access Point; FW v.1.11, 5.0 GHz, 40 MHz channel, Channel (44,1)
 - Downloading Home videos uses 5 digital videos with a total transfer size of 2.7 GB from a server that is connected to the Access Point via 1 GbE using Windows* file copy
 - Downloading Digital Photo Album uses 200 digital pictures with a total transfer size of 538 MB from a server that is connected to the Access point via 1 GbE using Windows* file copy
 - Downloading Digital Music Library uses 800 digital songs with a total transfer size of 3.16 GB from a server that is connected to the Access Pont via 1 GbE using Windows* file copy
 - Intel SCH Test Facility: Location 0
- “Quicker E-Mail and Video Backups” slide
 - D-Link* DIR-855 802.11 Draft-N Access Point; FW v.1.11, 5.0 GHz, 40 MHz channel, Channel (44,1)
 - 6 simultaneous file uploads consisting of 5 videos with a total size of 2.3 GB and a 1GB .pst file are being uploaded from the laptop to the server that is connected to the Access Pont via 1 GbE using Windows* file copy
 - Intel SCH Test Facility: Location 0
- “Better Throughput at Greater Distances” slide
 - D-Link* DIR-855 802.11 Draft-N Access Point; FW v.1.11, 2.4 GHz, 20 MHz channel, Channel 6
 - Uploading of 5 videos with a total size of 2.3 GB and a 1GB .pst file for a total transfer size of 3.3 GB from the laptop to the server that is connected to the Access Pont via 1 GbE using Windows* file copy
 - Intel SCH Test Facility: Location 2