



## RANGEBOOSTER N 650 NOTEBOOK ADAPTER

### HIGH PERFORMANCE

Upgrade to the latest draft 802.11n technology while staying compatible with 802.11b & 802.11g

### WIRELESS PROTECTION

Connect to secure wireless networks using WEP, WPA and WPA2

### TOTAL CONNECTION

Get reception throughout your home and office by connecting to a RangeBooster N 650 router



### ULTIMATE PERFORMANCE

The DWA-645 RangeBooster N 650 notebook adapter is a draft 802.11n client device that delivers unrivaled wireless performance for the notebook PC. Users can easily upgrade to the next generation of wireless technology by adding the RangeBooster N adapter to access network high-speed Internet connection while sharing photos, files, music, video, printers, and storage. Enhance Internet experience with a faster wireless connection and enjoy smooth digital phone calls, gaming, downloading, and video streaming.

### GET CONNECTED, STAY CONNECTED

Powered by RangeBooster N 650 technology, this adapter provides wireless performance that is up to 5 times farther than 802.11g<sup>1</sup>. This high performance wireless adapter is designed for use in bigger homes and for users that demand higher networking performance. Maximize wireless performance by connecting this notebook adapter to a RangeBooster N 650 router and stay connected from virtually anywhere in your home<sup>1</sup>. It can also be used with 802.11g and 802.11b wireless networks to enable significantly improved reception<sup>1</sup>. This adapter supports WPA/WPA2 security and WEP data encryption to help prevent outside intrusion and protect your personal information from being exposed.

### EASY TO SETUP, EASY TO USE

A Quick Setup Wizard guides users step-by-step through the installation process. Configure this adapter without having to call a networking expert for help. The Wireless Manager is included with this product to keep track of all most frequently accessed networks. With unmatched wireless performance, reception, and security, this adapter is the best choice for easily adding or upgrading wireless connectivity to notebook computers.

#### WHAT THIS PRODUCT DOES

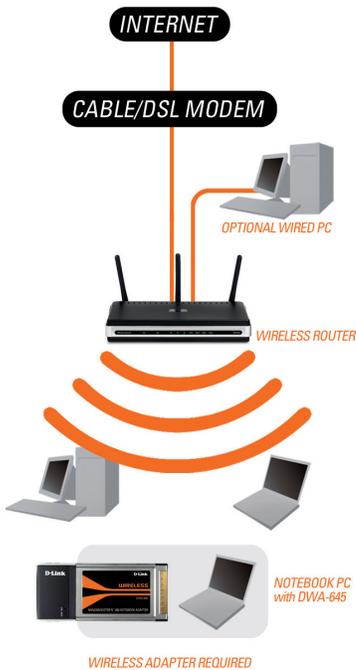
Upgrade your notebook computer's wireless connectivity with the RangeBooster N 650 network adapters and routers for a much faster wireless connection and superior reception. Once connected, you can access your network's high speed Internet while also getting secure access to shared photos, files, music, video, printers and storage.

#### GET CONNECTED, STAY CONNECTED

Based on the latest 802.11n (draft) specifications, RangeBooster N 650 technology provides real world performance that can be up to 300Mbps and 5 times faster than 802.11g.<sup>1</sup> This allows wireless network connection to perform smoothly for bandwidth-demanding applications such as multimedia and Internet phone.



#### YOUR NETWORK SETUP



#### TECHNICAL SPECIFICATIONS

##### SYSTEM REQUIREMENTS

- + Windows XP SP2 or 2000 SP4
- + CD-ROM drive
- + 20MB hard disk space
- + CardBus Type II Slot

##### STANDARDS

- + IEEE 802.11n (draft)
- + IEEE 802.11g
- + IEEE 802.11b

##### INTERFACE

- + 32-bit CardBus

##### FREQUENCY RANGE

- + 2412 to 2462MHz (North America)
- + 2412 to 2472MHz (General Europe)
- + 2412 to 2484MHz (Japan)

##### EMISSION SCHEMES

- + DSSS, OFDM

##### DATA MODULATION SCHEMES

- + DBPSK, DQPSK, CCK and OFDM (BPSK/QPSK/16-QAM/64-QAM)

##### DATA RATES<sup>1</sup>

- + 802.11g: 6/9/12/18/24/36/48/54Mbps
- + 802.11b: 1/2/5.5/11Mbps
- + 802.11n: 30/60/90/120/180/240/270/300Mbps

##### TRANSMIT OUTPUT POWER<sup>2</sup>

- + 17dbm (typical)

##### EIRP

- + 17dbm (typical)

##### ANTENNAS

- + Two antennas for signal transmission
- + Three antennas for signal reception

##### SECURITY

- + 64/128-bit WEP data encryption
- + Wi-Fi Protected Access (WPA, WPA2)

##### POWER INPUT

- + 3.3 VDC +/- 5%

##### POWER CONSUMPTION (802.11N)

- + 2TX: TX 630mA, RX 450mA, Standby 450mA
- + 3TX: TX 930mA, RX 450mA, Standby 450mA

##### DIAGNOSTIC LEDS

- + Link
- + Activity

##### DIMENSIONS

54.8 x 120 x 6.9 mm  
(2.16 x 4.72 x 0.27 inches)

##### WEIGHT

46 grams (0.1 lb)

##### OPERATING TEMPERATURE

0° to 40° C (32° to 104° F)

##### STORAGE TEMPERATURE

-20° to 65° C (-4° to 149° F)

##### OPERATING HUMIDITY

10% to 90% non-condensing

##### STORAGE HUMIDITY

5% to 95% non-condensing

##### CERTIFICATIONS

- + FCC Class B
- + CE
- + C-Tick
- + IC
- + Wi-Fi

<sup>1</sup> Maximum wireless signal rate derived from IEEE standard 802.11g and draft 802.11n specifications. 802.11n speeds obtainable when operating among RangeBooster N 650 products. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate. Environmental factors will adversely affect wireless signal range.

RangeBooster N 650 products are based on draft IEEE 802.11n specifications and are not guaranteed to be forward compatible with future versions of the IEEE 802.11n specifications. Compatibility with draft 802.11n devices from other manufacturers is not guaranteed. All references to speed are for comparison purposes only. Product specifications, size and shape are subject to change without notice, and actual product appearance may differ from that depicted herein.

<sup>2</sup> Maximum output power setting varies according to individual country.



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