



## 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

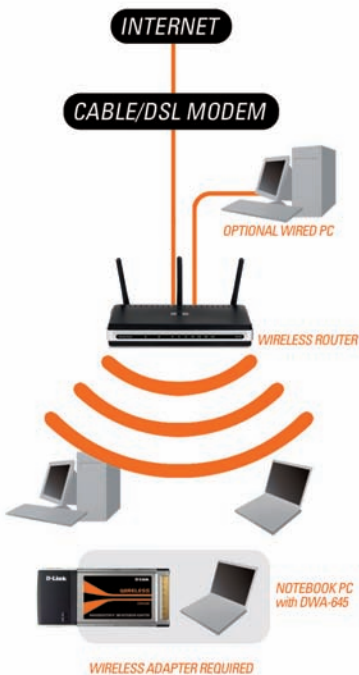
Upgrade your notebook computer's wireless connectivity with the RangeBooster N 650 network adapters and routers for a much faster wireless connection and superior reception. Once connected, you can access your network's high speed Internet while also getting secure access to shared photos, files, music,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



<sup>1</sup> Maximum wireless signal rate derived from IEEE standard 802.11g and draft 802.11n specifications. 802.11n speeds obtainable 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.

### D-Link Worldwide Offices

U.S.A.	TEL: 1-800-326-1688	FAX: 1-866-743-4905	Spain	TEL: 34-93-4090770	FAX: 34-93-4910795	Turkey	TEL: 90-312-473-40-55	FAX: 90-312-473-40-58
Canada	TEL: 1-905-8295033	FAX: 1-905-8295223	Portugal	TEL: 351-21-8688493		Egypt	TEL: 202-291-9035	FAX: 202-291-9051
Europe (U. K.)	TEL: 44-20-8955-9000	FAX: 44-20-8955-9001	Czech Republic	TEL: 420-(603)-276-589		Israel	TEL: 972-9-9715700	FAX: 972-9-9715601
Germany	TEL: 49-6196-77990	FAX: 49-6196-7793000	Switzerland	TEL: 41-(0)-1-832-11-00	FAX: 41(0)-1-832-11-01	LatinAmerica	TEL: 56-2-232-3185	FAX: 56-2-232-0923
France	TEL: 33-1-30238688	FAX: 33-1-30238689	Greece	TEL: 30-210-9914 512	FAX: 30-210-9916902	Brazil	TEL: 55-11-218-59300	FAX: 55-11-218-59322
Netherlands	TEL: 31-10-282-1445	FAX: 31-10-282-1331	Luxemburg	TEL: 32-(0)2-517-7111	FAX: 32-(0)2-517-6500	South Africa	TEL: 27-12-665-2165	FAX: 27-12-665-2186
Belgium	TEL: 32(0)2-517-7111	FAX: 32(0)2-517-6500	Poland	TEL: 48-(0)-22-583-92-75	FAX: 48-(0)-22-583-92-76	Russia	TEL: 7-495-744-0099	FAX: 7-495-744-0099 #350
Italy	TEL: 39-02-2900-0676	FAX: 39-02-2900-1723	Hungary	TEL: 36-(0)-1-461-30-00	FAX: 36-(0)-1-461-30-09	Japan	TEL: 81-3-5781-0963	FAX: 81-3-5781-0965
Sweden	TEL: 46-(0)8564-61900	FAX: 46-(0)8564-61901	Singapore	TEL: 65-6774-6233	FAX: 65-6774-6322	China	TEL: 86-10-58635800	FAX: 86-10-58635799
Denmark	TEL: 45-43-969040	FAX: 45-43-424347	Australia	TEL: 61-2-8899-1800	FAX: 61-2-8899-1888	Taiwan	TEL: 886-2-6600-0123	FAX: 886-2-6600-8168
Norway	TEL: 47-99-300-100	FAX: 47-22-309580	India	TEL: 91-022-2652696	FAX: 91-022-26528914	Headquarters	TEL: 886-2-6600-0123	FAX: 886-2-6600-9898
Finland	TEL: 358-9-2707 5080	FAX: 358-9-2707-5081	Middle East (Dubai)	TEL: 971-4-3916480	FAX: 971-4-3908881			