



## ALL-IN-ONE ADSL2+ MODEM ROUTER

### HIGH-SPEED INTERNET

Latest ADSL2/2+ standards provide Internet transmission of up to 24 Mbps downstream, 1 Mbps upstream

### HIGH-PERFORMANCE WIRELESS

Embedded 802.11n technology for high-speed wireless connection and complete compatibility with 802.11b/g wireless devices

### TOTAL SECURITY & QoS

Firewall protection, user access control, WPA/WPA2 wireless security, and priority queues for smooth VoIP multimedia



### HIGH-SPEED INTERNET

The All-In-One ADSL2+ Modem Router is a versatile, high-performance remote router for home and the small office. With integrated ADSL2/2+ supporting up to 24 Mbps download speeds, firewall protection, Quality of Service (QoS), 802.11n wireless LAN, backward compatibility with existing 802.11b and 802.11g wireless equipment, and 4 Ethernet switch ports, this router provides all the functions that a home or small office needs to establish a secure and high-speed remote link to the outside world.

### ULTIMATE WIRELESS CONNECTION

The All-In-One ADSL2+ Modem Router provides wireless speeds that are many times faster than 802.11g. Maximize wireless performance by connecting this router to computers equipped with N wireless interface and stay connected anywhere at home and in the office. The DSL-2640B supports WPA/WPA2 and WEP data encryption methods for flexible user access security.

### FIREWALL PROTECTION & QoS

Security features prevent unauthorized access to your home and office network from wireless devices or from the Internet. The All-In-One ADSL2+ Modem Router provides firewall security, such as Stateful Packet Inspection (SPI) and hacker attack logging. SPI inspects the contents of incoming packets before they are allowed in, while hacker logging helps to protect your network against Denial of Service (DoS) attacks. Quality of Service (QoS) supports priority queues to enable a group of home or office users to experience the benefit of a smooth network connection without concern of traffic congestion.

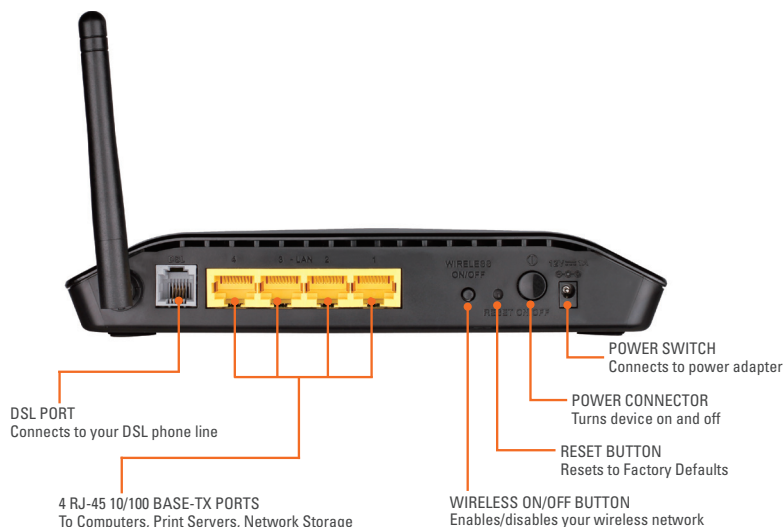
### WHAT THIS PRODUCT DOES

This All-In-One ADSL2+ Router connects a group of users to the Internet, allowing multiple computers at home or the office to share an integrated high-speed ADSL2/2+ interface. It provides high-performance 802.11n wireless access for wireless networked computers, 4 built-in Ethernet ports, firewall protection and QoS for smooth and secure download/upload of photos, files, music, video, and e-mail over the Internet.

### YOUR NETWORK SETUP



### TECHNICAL SPECIFICATIONS



#### DEVICE INTERFACES

- RJ-11 ADSL port
- 4X 10/100Base-TX MDI/MDIX RJ-45 ports
- 802.11n 150 WLAN

#### WIRELESS LAN

- 802.11b/g standards
- Wireless speed: up to 54 Mbps (802.11g), 150 Mbps (802.11n)<sup>1</sup>
- Frequency range: 2.4 GHz to 2.484 GHz
- Antennas: Non-detachable antenna
- 64/128 bits WEP data encryption
- WPA/WPA2(personal/enterprise) security
- 802.1x RADIUS
- WPS (Wi-Fi Protected Setup)
- Multiple SSID\*
- 802.11e Wireless QoS (WMM/WME)\*
- MAC address-based access control

#### WIRELESS TRANSMISSION POWER<sup>2</sup>

- 17.5dBm +/- 2dBm

#### ADSL STANDARDS

- ADSL standards: Multi-mode, ANSI T1.413 Issue 2, ITU G.992.1 (G.dmt) Annex A, ITU G.992.2 (G.lite) Annex A, ITU G.994.1 (G.hs)
- ADSL2 standards: ITU G.992.3 (G.dmt.bis) Annex A/L/M, ITU G.992.4 (G.lite.bis) Annex A
- ADSL2+ standards: ITU G.992.5 Annex A/L/M

#### ADSL DATA RATES

- G.dmt: 8 Mbps downstream, 832 Kbps upstream
- G.lite: 1.5 Mbps downstream, 512 Kbps upstream
- ADSL2: 12 Mbps downstream, 1 Mbps upstream
- ADSL2+: 24 Mbps downstream, 1 Mbps upstream

#### ATM & PPP PROTOCOLS

- ATM Forum UNI3.1/4.0 PVC (up to 16PVCs)\*
- ATM Adaptation Layer Type 5 (AAL5)
- ATM QoS (Traffic Shaping)\*
- Bridged or routed Ethernet encapsulation
- VC and LLC based multiplexing
- PPP over Ethernet (PPPoE)
- PPP over ATM (RFC 2364)
- ITU-T I.610 OAM F4/F5

#### NETWORK PROTOCOLS

- WAN/LAN Switchable Port
- NAT (maximum 4096 NAT sessions)
- DHCP server/client/relay
- Static Routing, RIP v.1, v.2\*
- Universal Plug and Play (UPnP) Compliant
- Dynamic Domain Name System (DDNS)
- Virtual Server
- SNTP, DNS proxy and IGMP proxy\*

#### FIREWALL/ACCESS SECURITY

- Built-in NAT firewall
- Stateful Packet Inspection (SPI)
- DoS attack prevention
- Packet filtering (IP/ICMP/TCP/UDP)
- Intrusion Detection System (IDS)
- DMZ
- Parental Control (URL blocking, scheduling)

#### VIRTUAL PRIVATE NETWORK (VPN)

- Multiple PPTP/IPSec/L2TP pass-through

## GET HIGH ADSL AND WIRELESS PERFORMANCE

Ready ADSL connection with up to 24 Mbps downstream and 1 Mbps upstream. Watch TV, listen to live music and broadcasts on the Internet, and experience clear Internet phone calls. Built-in high-performance 802.11n wireless LAN means that you don't have to compromise high-speed ADSL transmission with wireless speed constraints. Now, smooth streaming multimedia and VoIP voice are possible anywhere at home and in the office, without the need to hook up any network cables.

### DEVICE CONFIGURATION/MANAGEMENT

- Installation Wizard
- Web-based GUI for configuration, firmware upgrade
- Code lock to prevent improper firmware upgrade
- Telnet
- Syslog monitoring
- TR-069 Client\*

### QUALITY OF SERVICE

- LAN to WAN traffic prioritization/Classification
- 802.1p (0 to 7) traffic prioritization\*
- Traffic Shaping
- IGMP Snooping with 32 Multicast groups\*
- PVC/VLAN port mapping (bridge mode)\*

### POWER INPUT

- Through 12 V / 1 A external power adapter

### DIAGNOSTIC LEDs

- Power
- LAN (1 to 4)
- WLAN
- DSL
- Internet
- WPS

### DIMENSIONS (L x W x H)

- 182.8 x 127.8 x 32 mm (4.7 x 7.8 x 1.2 inches)

### WEIGHT

- 235g

### OPERATING TEMPERATURE

- 0° to 40° C (32° to 104° F)

### STORAGE TEMPERATURE

- -20° to 70° C (-4° to 158° F)

### OPERATING HUMIDITY

- 5% to 95% non-condensing

### CERTIFICATIONS

- CE
- WHQL
- Wi-Fi Certified
- WPS

<sup>1</sup> Maximum wireless signal rate based on IEEE 802.11g and 802.11n specifications. 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.

<sup>2</sup> Typical transmission power; transmission power setting varies according to country.

\*Advanced feature available on project requests; not applicable to standard retail release.



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