

Powering communications
with Security

BILLION™

ADSL2+ is 2005

- Billion's ADSL2+ Products

May, 2005 updated

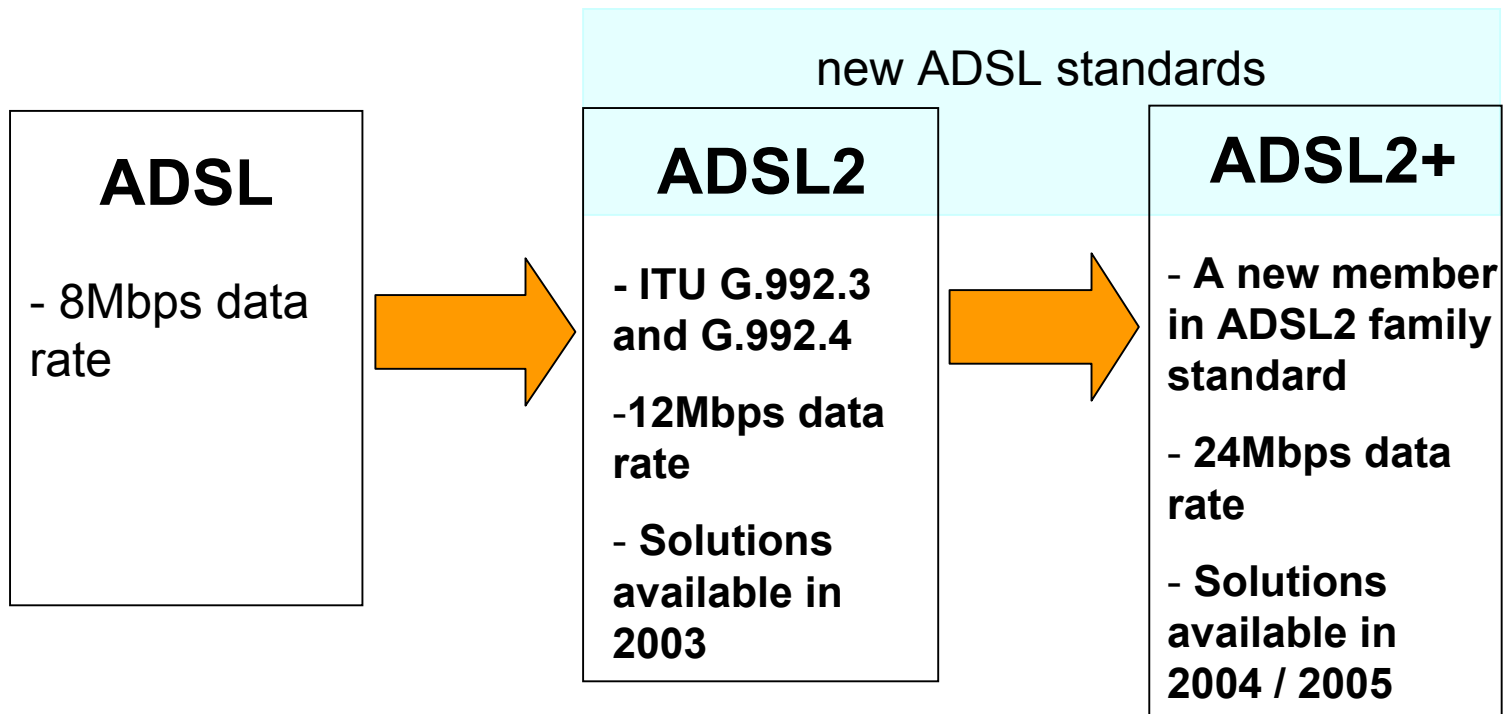


Usage Suggestion

This presentation document containing competition information is ideally created for the purpose of pre-sell training to the audience of Billion's sales representatives, authorized sales agents, authorized distributors, or multiple tiered re-sellers when pre-selling education is needed. The disclosure of this entire documentation to end-users may not be encouraged.

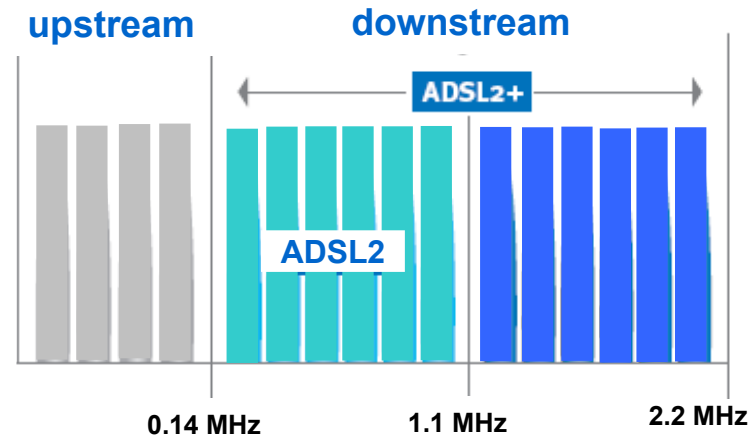
ADSL Technology Evolution

Communication Demand for improved data performance and the support for new applications, services, and deployment scenarios



What is ADSL2+

- A new ADSL standard
- Improved interoperability, yet subject to mutual interoperability among carriers worldwide
- Better performance of data transmission
 - ✓ Ready for higher speed, maximum to 24Mbps data rate
 - ✓ Support longer distance coverage
 - ✓ Reduce power consumption
 - ✓ Upgradeable from existing ADSL hardware
 - ✓ Enable all-digital mode: ADSL data in the voice bandwidth
 - ✓ Support pack-based services, such as Ethernet




ADSL2+ doubles the bandwidth

Billions ADSL2+ Products - Wired

Product Model	BiPAC 5102SM	BiPAC 5102S	BiPAC 5102	BiPAC 7202	BiPAC 7402
Product Description	ADSL2+ Modem	Single Ethernet Port ADSL2+ Router	ADSL2+ Router	ADSL2+ Router	ADSL2+ VPN Firewall Router
Firewall DoS, SPI	NAT & packet filtering only	NAT & packet filtering only	NAT & packet filtering only	V	V
# of Ethernet port	1	1	4	4	4
Quality of Service	-	-	-	V	V
# of IP Sec VPN Tunnels	VPN pass thru	VPN pass thru	VPN pass thru	VPN pass thru	16
Segment users	Home users (specially designed for telco tender bid)	Home users	Home users	Home users, SOHO users	Office users, SOHO users, Internet Cafe
Suggested Retail Prices (US\$) (VAT excl.)	case-by-case discussion	US\$ 50	US\$ 60	US\$ 70	US\$ 149

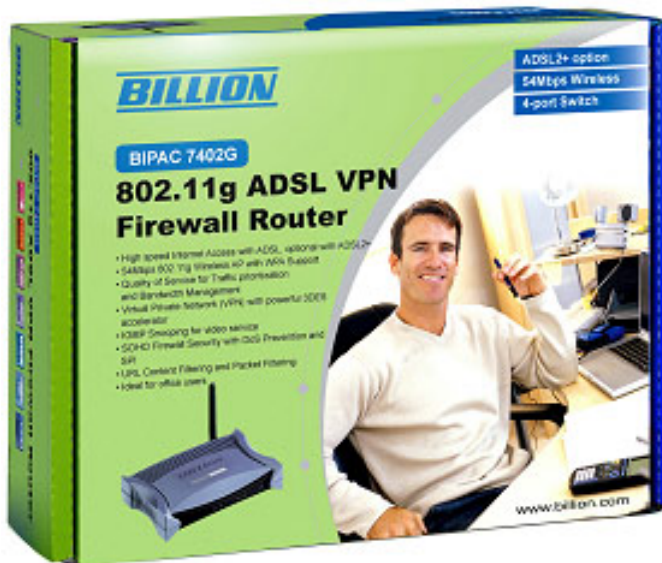
Notes: Billion's SRP is subject to change upon each market situation.

Billion's ADSL2+ Products – WLAN

Product Model	BiPAC 5102G	BiPAC 7202G	BiPAC 7402G	myGuard 7202G powered by 
Description	802.11g ADSL2+ Router	802.11g ADSL2+ Router	802.11g ADSL2+ VPN Firewall Router	802.11g ADSL2+ Security Router
Firewall (DoS, SPI)	NAT & packet filtering only	V	V	V
# of Ethernet port	4	4	4	4
802.11g WPA, WEP	802.11g Access Point with WEP only	V	V	V
Quality of Service	-	V	V	V
# of IP Sec VPN Tunnels	VPN pass thru	VPN pass thru	16	VPN pass thru
Segment users	Home users	Office users, SOHO users	Office users, SOHO users	Home users, SOHO users
Suggested Retail Prices (US\$) (VAT excl.)	US\$ 88	US\$ 98	US\$ 210	US\$ 102

BIPAC 7402G

802.11g ADSL2+ VPN Firewall Router



BIPAC 7402G

Key Features

- Ideal for Office and SOHO Users
- Higher Internet Access Speed with ADSL, and capable of ADSL2/ADSL2+
- Quality of Service (QoS) Control
- Up to 16 Concurrent IPSec VPN Connections
- SOHO Firewall Security with DoS Prevention and SPI
- Parental Control with URL Content Filtering
- IGMP snooping for video service
- DDNS (Dynamic Domain Name System)
- UPnP (Universal Plug and Plug)
- Easy to use and manage

Why BIPAC 7402G

- Powerful hardware for office users
- Cost-effective pack of all-in-one functionality
- Higher Internet access speed
- Internet Quality of Service Control
- Mobility
- Network Security

Who Needs BIPAC 7402G

- SOHO users who need broadband ADSL devices at compact but cost-effective package to telework with dispersing parties
- Small Office users who don't have dedicated MIS personnel but have desperate needs to manage office network security and set up Internet access policy for time-sensitive and mission-critical data transmission

Unique Selling Point

- **ADSL2+ Capability**

- firmware upgradeable to ADSL2 / ADSL2+
- upgrade to ADSL2+ from existing ADSL hardware
- maximum data rate 24Mbps

- **Powerful Quality of Service Control**

- Employed on DiffServ (Differentiated Services) architecture
- Throttle the speed at different type of data transmission
- Latency-sensitive applications like voice or even mission-critical files as VPN have the priorities and move fast
- Full control over the data traffic to keep the net smooth and responsive

- **Cost-effective Pack of All-in-one Functionality**

Benefits

- Single device for faster broadband access without buying extra piece of network equipment
- Comprehensive Network Security
 - ✓ Built-in Firewall to protect network
 - ✓ Secure and cost-saving VPN connections
 - ✓ 54Mbps 802.11g Wi-Fi Protected Access technology enables extreme secured mobility
- Quality of Service Control for effectively managing the bandwidth and prioritizing the traffic of data transmission.
- Saving in-house MIS personnel and efforts
- Easy to use, easy to manage the network

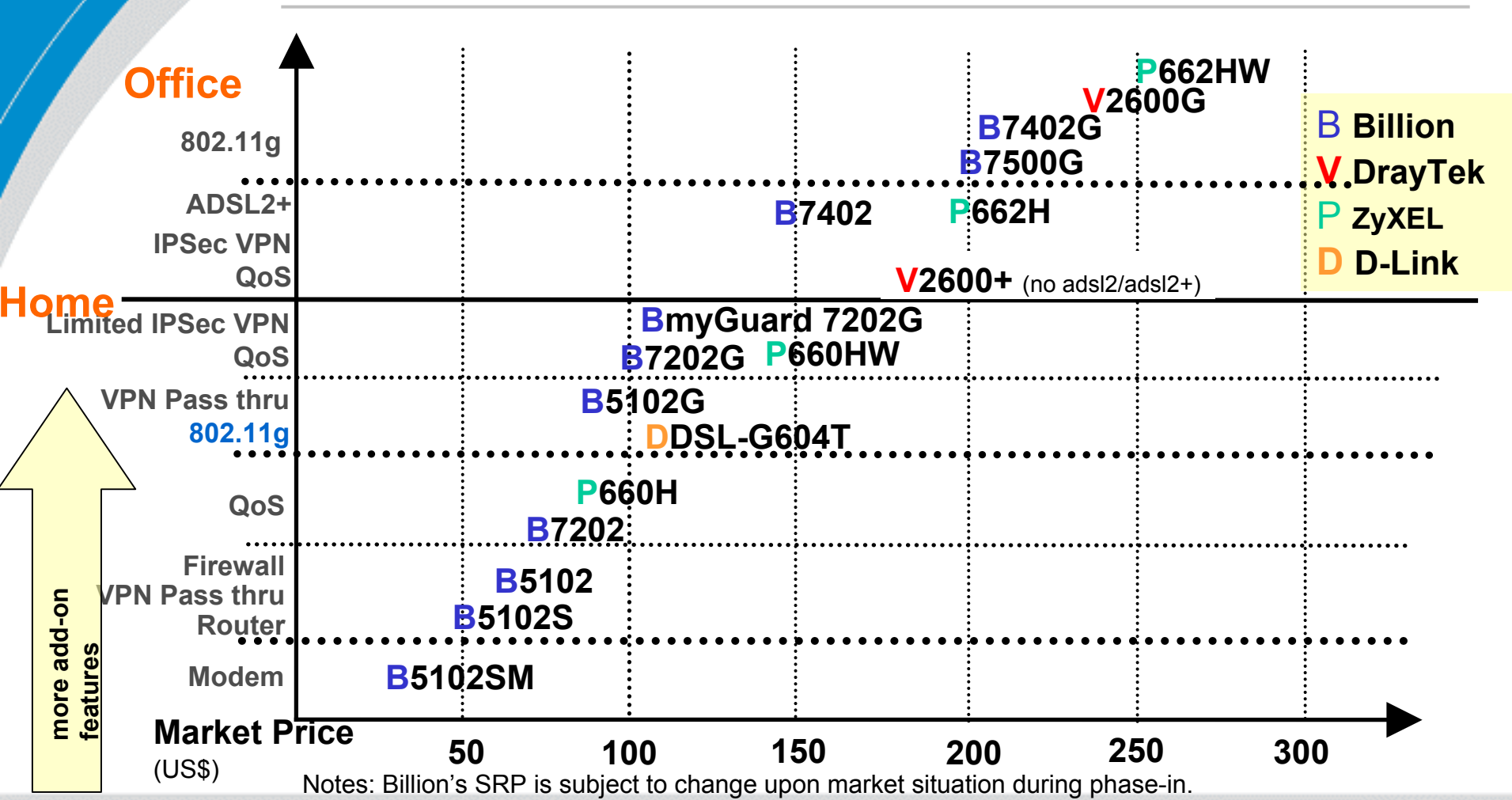
Competition Landscape – I

- high-end ADSL2+ products

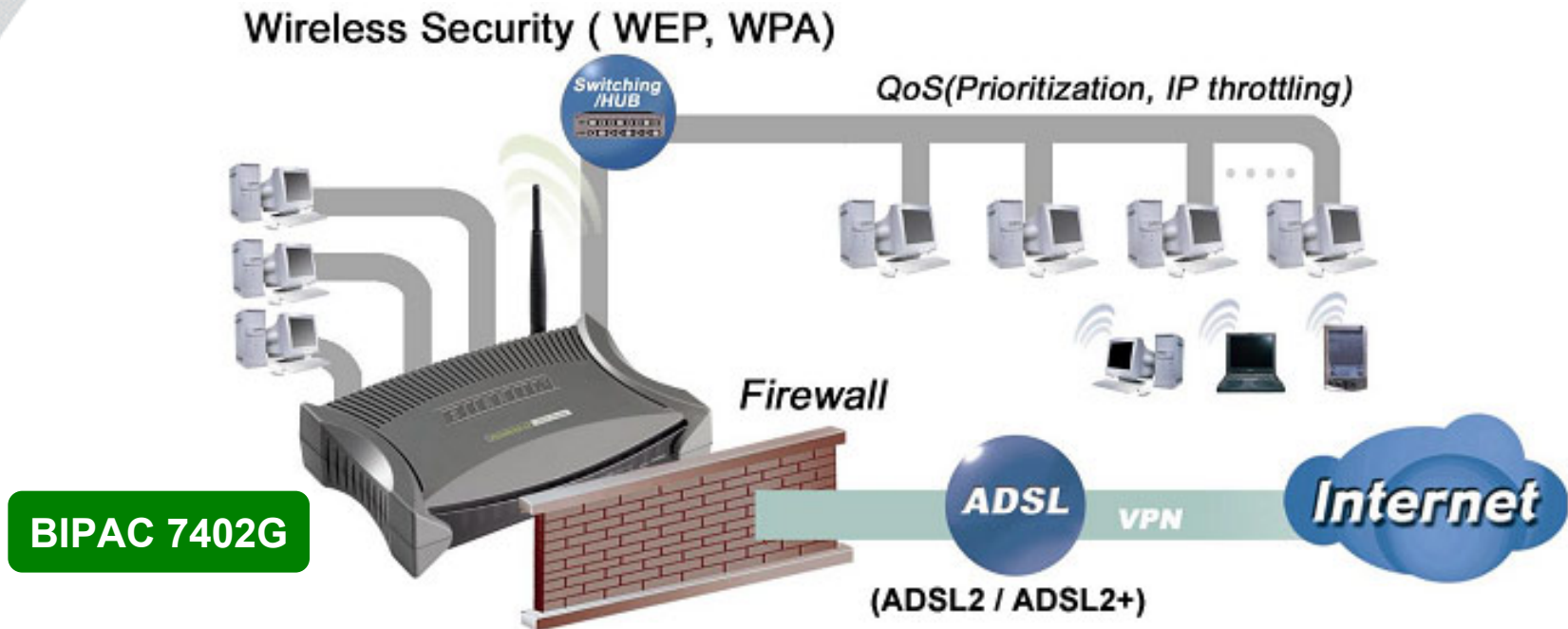
		DrayTek	Billion	Billion	ZyXEL
		Vigor 2600G	BIPAC 7500G	BIPAC 7402G	Prestige 662HW
Hardware Interfaces	LAN Port	4	4	4	4
	Power Swith	V	V	V	V
	Power Jack	V	V	V	V
	Reset Button	V	V	V	V
	Console (RS-232)	-	V	V	V
	ADSL	V	V	V	V
	WLAN	V	V	V	V
ADSL Compailance	ADSL2	-	V	V	V
	ADSL2+	-	-	V	V
Wireless		802.11g	802.11g	802.11g	802.11g
VPN Tunnels		16	16	16	20
Firewall	DoS/DDoS	V	V	V	V
	Access Control	V	V	V	V
	Packet Filtering	V	V	V	V
	URL Filtering	V	V	V	V
	Stateful Packet Inspection	V	V	V	V
IP Quality of Service	Traffic Prioritization	-	V	V	V
	Bandwidth Management	V	V	V	V
Management	WebGUI	V	V	V	V
	Firmware Upgrade	V	V	V	V

Competition Landscape - II

- ADSL2+ products



Application Diagram



Hardware Specification

Physical Interface

- WLAN : 2.5 dBi de-attachable antenna
- WAN: ADSL port (RJ-11 phone port)
- LAN: 4-port 10/100M auto-sensing & auto-crossover switch
- Console port: RJ-45
- Factory default reset button
- Power Jack
- Power Switch

Physical Specification

- Dimensions: 180mm x 120mm x 40mm
(7.09" x 4.72" x 1.57")

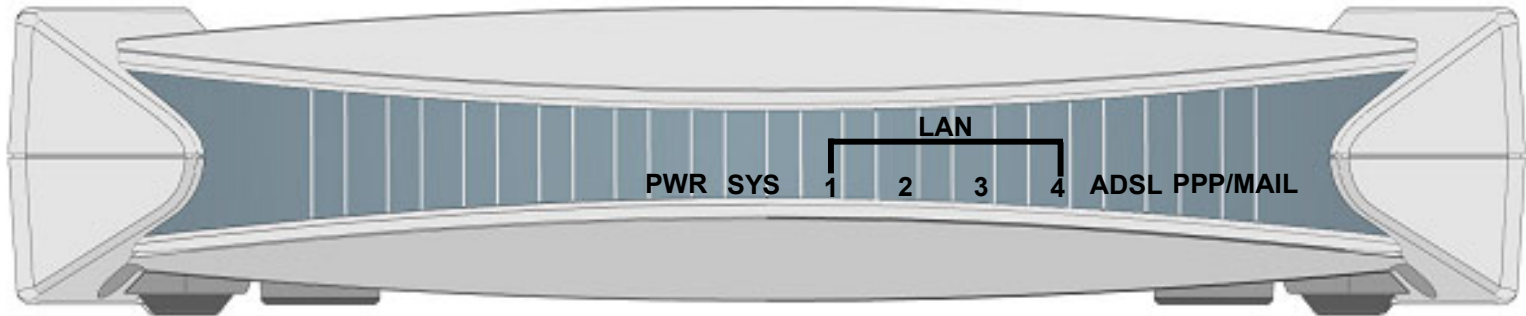
Power Requirement

- Input: 12V DC, 1A

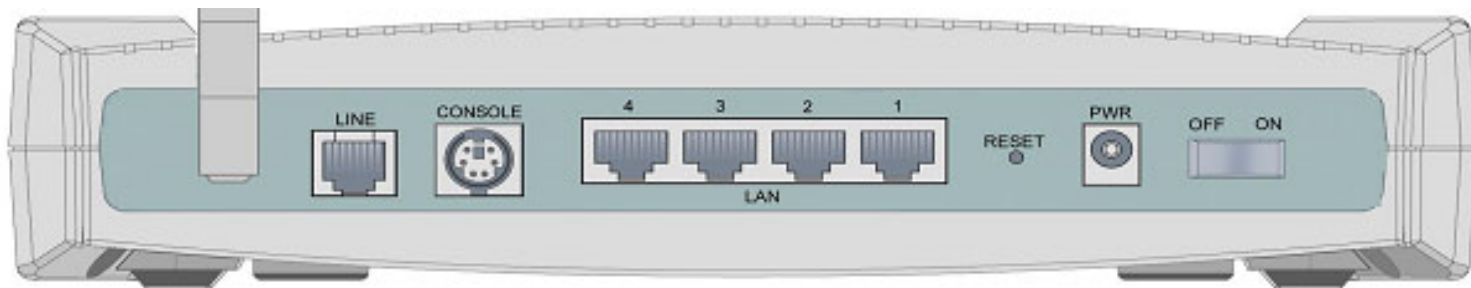


Detailed Hardware Outlook

Front Panel



Rear Panel



Accessories

Standard Package Content

- (1) 12VDC, 1A Power adaptor (EU, UK, UL, AU type)
- (2) Gift box (Eng. + Multilingual) 293 x 229 x 80mm
- (3) Printed QSG : 130 x 185mm
(West Europe – German, French, Dutch, Italian, Spanish, English)
(North Europe – Norwegian, Danish, Swedish, English)
(Others - English)
- (4) CD: contains User Manual and Router finder Application program
- (5) RJ-45 LAN cable (UTP, Straight)
- (6) RJ-11 phone cable (for ADSL port-Annex A)
RJ11-RJ45 phone cable (for ADSL port-Annex B/U-R2)

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Billion's authorized local sales representative
or distributors

Thank You !

