EchoLife HG520b Home Gateway

- **High-bandwidth ADSL2+**
- **Flexible routing function**
- **Ideal multi-service interface**
- **Standard TR-069 management capability**

High-bandwidth ADSL2+	**The HG520b is integrated with a high-performance ADSL2+ network processor to enhance user service experience.**
Flexible routing function	**The HG520b is embedded with a PPPoE dialer and supports the DHCP server and simultaneous access for multiple users and devices.**
Ideal multi-service interface	**The HG520b supports WiFi multi-SSID function to construct a secure and reliable high-speed wireless network and provides secure and simple wireless network access.**
Standard TR-069 management capability	**The HG520b is fully compatible with the TR-069 standard of the DSL Forum and provides ideal remote management and diagnostic functions, greatly reducing operation expenditure (OPEX). Automatic upgrades and service release processes conveniently implement customized service release.**

The EchoLife HG520b home gateway (hereinafter referred to as the HG520b) features a user-friendly GUI, complemented by a fresh and unique appearance. It can be used as a photo frame, which enhances its appeal and practicality. At the network side, it provides ADSL2+ for rapid Internet access and high-speed broadband access.

For users, it provides one wireless network interface and four Ethernet interfaces. After connecting to a PC, STB, video phone, or another terminal, users can enjoy data, voice, and a range of other services.

The HG520b boasts powerful routing and bridging functions and supports NAT/firewall technology, with flexible network configuration and QoS policies. Moreover, the unit provides quality guarantees for latency-sensitive voice services and for video services susceptible to packet loss. The HG520b provides high-bandwidth and premium quality broadband services for home users.

As a broadband network terminal, the HG520b is an extension of an operator's broadband network. HG520b provides powerful remote maintenance and administration functions. It supports the latest TR-069 terminal management standards and remote automatic upgrades, thus facilitating large-scale deployment and maintenance.

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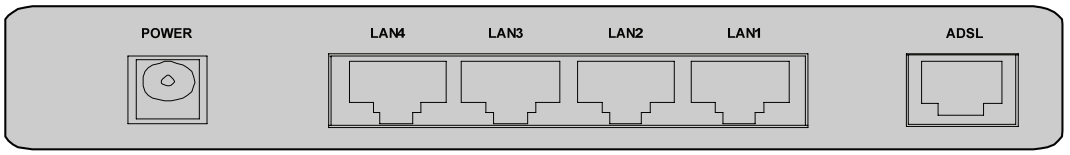
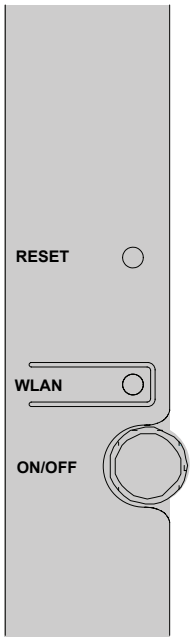
Hardware Features

Rear Panel



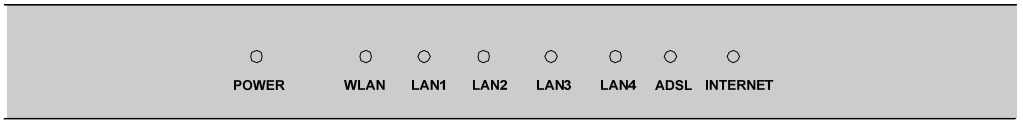
- One POWER interface: **POWER**
- One ADSL interface (RJ-11): **ADSL**
- Four adaptive 10/100 Base-T Ethernet interfaces (RJ-45): **LAN1**, **LAN2**, **LAN3**, and **LAN4**

Side Panel



- RESET button: **RESET**
- WLAN switch: **WLAN**
- ON/OFF switch: **ON/OFF**

Front Panel



- One power indicator: **POWER**
- One WLAN indicator: **WLAN**
- Four LAN indicators: **LAN1**, **LAN2**, **LAN3** and **LAN4**
- One ADSL indicator: **ADSL**
- One INTERNET indicator: **INTERNET**

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Interface Features

ADSL/ADSL2+ Interface

- Compatible with ITU-T G.992.1 (G.DMT), Annex A ANSI T1.413 Issue 2, G.992.2 (G.Lite), G.992.3 (ADSL2) and G.992.5 (ADSL2+)
- Supports dual latency (fast and interleave) auto-connection
- Supports ITU-T G.994.1 (G.hs) handshake protocol

WLAN Interface

- 802.11g
- 802.11b
- WPA security
- 64/128 digits WEP encryption and TKIP encryption
- Access control based on MAC address

Ethernet Interface

- Supports IEEE802.3u
- Supports automatic negotiation
- Supports full duplex and half duplex.
- Supports collision detection
- Supports line Auto MDI-X

Functional Features

Routing Features

- Supports RIPv1 (RFC1058), RIPv2 (RFC1389), and static routing
- Supports NAT, NAPT, and ALG expansion
- Supports DHCP server/client
- Supports DNS forwarding
- Supports IGMP proxy
- Supports port mapping

Bridging Protocols

- Supports self-learning of the transparent bridging from the Ethernet to the ADSL (IEEE 802.1D)
- Supports the learning of up to 256 MAC addresses

Security

- Supports powerful wireless network security
- Supports ACL
- Supports IP/MAC address filtering
- Supports the PAP and CHAP authentication of PPP (RFC 1334)
- Supports SPI (Stateful Packet Inspection)
- Prevents port scanning and illegal packet attacks
- Prevents DoS attacks such as the SYN flooding, ping of death, teardrop, and LAND
- Supports DMZ

WAN Protocols

- Supports the AAL5 protocol: LLC
- Supports PPPoE (RFC2516)
- Supports RFC2684 routing and bridging

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ATM

- Supports ATM Forum UNI 3.1/4.0
- Supports the simultaneous working of up to 8 ATM PVCs
- Able to provide different levels of QoS for each PVC
- Supports multiple ATM QoS service levels (CBR, UBR, rt-VBR and nrt-VBR)
- Supports OAM F5 loop (I.610)

Network Management

- Supports TR-069
- Supports remote and local web configuration and management
- Supports the upgrade through TR-069
- Views system logs
- Prevents improper upgrades
- Supports backup and restoration of configuration parameters

Radio Parameters

- Media access control: CSMA/CA with ACK
- Output power (maximum): 18 dBm (802.11b), 15 dBm (802.11g)
- Sensibility (typical): –76dBm/11Mbit/s (802.11b), –65dBm/11Mbit/s(802.11g)
- Rate (802.11b): 1 Mbit/s, 2 Mbit/s, 5.5 Mbit/s, 11 Mbit/s
- Rate (802.11g): 6 Mbit/s, 9 Mbit/s, 12 Mbit/s, 18 Mbit/s, 24 Mbit/s, 36 Mbit/s, 48 Mbit/s,54 Mbit/s

Technical Specifications

Power Specifications

- System power supply: 12 V DC, 1 A or 12 V AC, 1 A (set according to the concrete equipment)
- Power consumption: ≤ 7 W

Operation Environment

- Temperature: 0°C to 40°C (32°F to 104°F)
- Humidity: 5% to 95%, non-condensing

Physical Specifications

- Net weight: About 320 g
- Dimensions (L × W × H): 188 mm × 140 mm × 30 mm (without support)

Notice

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MODEM RESIDENCIAL MODELO HG520b DEL PROVEEDOR HUAWEI (Banda Sencilla)

- El Módem residencial de interior de Huawei proporciona 4 puertos Fast Ethernet (FE) e interfaz inalámbrica IEEE 802.11 b/g. Esta diseñado para ofrecer el servicio de Internet Residencial con tecnología ADSL/ADSL2/ADSL2+. El HG520b cuenta con funciones de enrutamiento y soporta tecnología NAT y firewall, con configuración de red flexible.

Características:

- Cuatro puertos Ethernet RJ-45 10/100 Mbps con negociación automática.
- 802.11 b/g con velocidades de hasta 54 Mbit/s.
- Soporta múltiples SSID.
- Funciones de seguridad como filtrado de IP/Mac, filtrado de URL, soporte de ACL, DMZ y Port forwarding.
- Previene ataques DoS como SYN Flooding, escaneo de puertos, redirección ICMP, Ping de la muerte, Teardrop y LAND.
- Soporta encapsulación ATM como PPPoE, IPoE and PPPoA.
- QoS. Soporta múltiples métodos de clasificación de trafico 802.1p and 802.1q para asegurar al usuario la calidad en audio y video.
- Administración remota TR-069.
- Soporte de múltiples estándares DSL como ADSL2+ (Anexo A y M), ADSL2 (Anexo A, L y M), ADSL (G.dmt, Ghs, ANSI T1.413).
- Soporta múltiples canales virtuales permanentes (8 PVCs).