



DX5401-B0/EX5401-B0 Series

Dual-Band Wireless AX6000 Gigabit VDSL2/Ethernet IAD

The Zyxel DX5401-B/EX5401-B0 Wireless AX6000 Gigabit VDSL2/Ethernet IAD Series supports the latest dual-band wireless WiFi 6 (11ax) technology and Zyxel MPro Mesh® Solutions. This Series can be deployed in the existing copper or fiber network to upgrade your customers with premium WiFi service on all their devices - anywhere in their home.

Benefits

WiFi 6 technology for superior lag-free performance

The Series offers speeds of up to 4804 Mbps* with 4x4 802.11ax and 1148 Mbps* with 4x4 802.11ax. The uplink MU-MIMO, Orthogonal Frequency Division Multiple Access (OFDMA) and beamforming technologies empower the Series to deliver premium speed for multi-streaming data access and optimal WiFi experience without dead zones.

SFP for multiple WAN options

With a built-in SFP cage module for GPON (P2M) or Gigabit active fiber (P2P), the Series can be deployed in the existing copper or fiber network infrastructure.



VDSL2 supports super vectoring up to profile 35b and LR-VDSL (DX5401-B0)



802.11ax (WiFi 6) 4x4+4x4 for superior performance and coverage



Zyxel MPro Mesh® Solutions (compliant with EasyMesh standards)



SFP cage enables Gigabit active fiber (P2P) and GPON (P2M) deployments



Remote management via TR-069 and TR-181 i2



Zyxel-developed OPAL for superior flexibility and faster time to market



VoIP SIP protocol with 3-way conference calls

Premium MPro Mesh® for whole-home coverage**

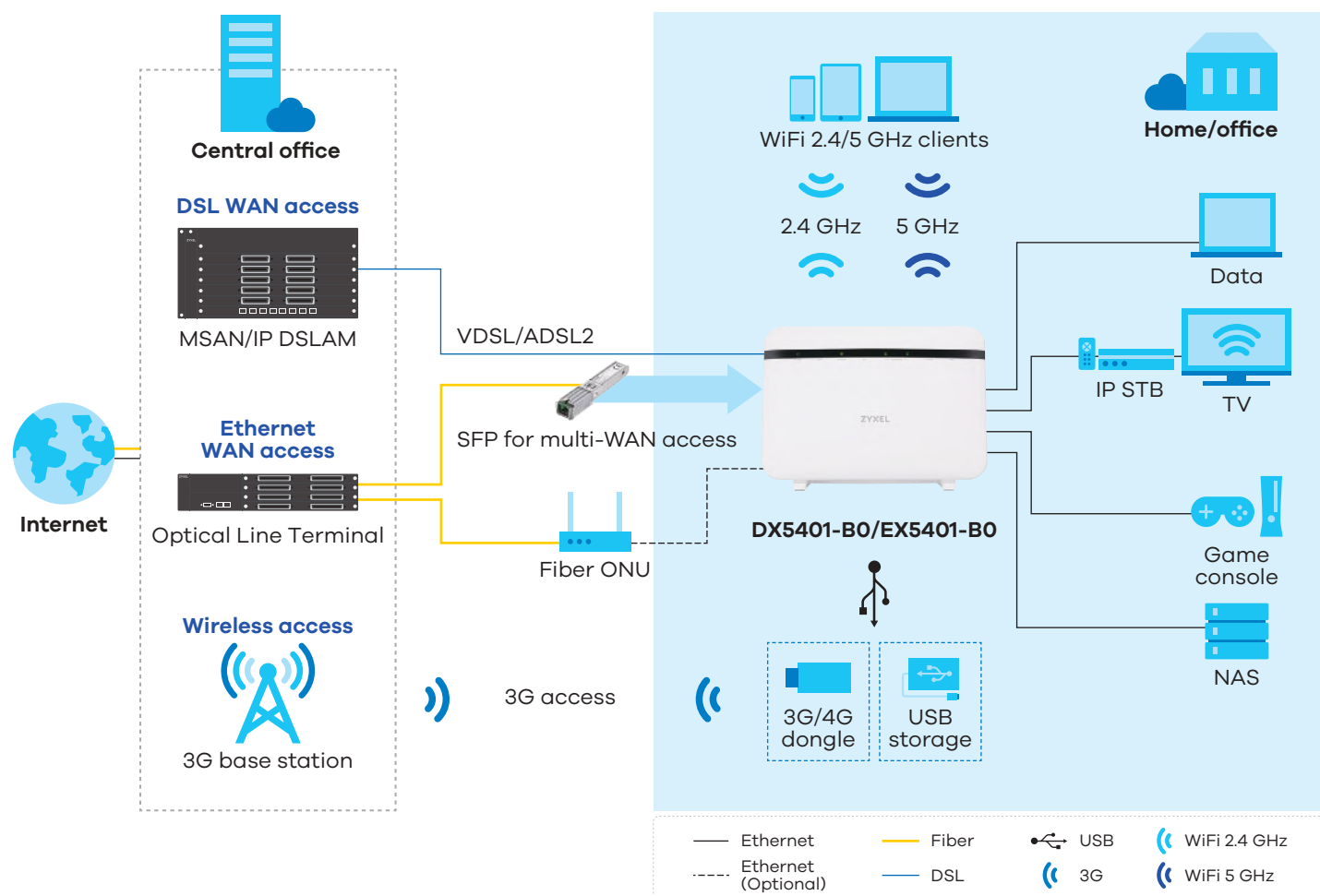
Featuring EasyMesh fully compliant Zyxel MPro Mesh® Solutions, the Series enhances your subscribers' experience by providing self-adapting, easy-to-manage whole-home WiFi coverage, while reducing your service OPEX.

** Combining DX5401-B0 and EX5401-B0 with the WX3401 Wireless Extender is advised for the ideal mesh network performance.

TR-069/TR-181 issue-2 remote management for lower OPEX

Compliant with TR-069, the Series significantly simplifies deployment complexity and lowers operating and maintenance costs. The additional support to the latest TR-181 issue-2 data model also enhances service providers' visibility on subscriber LAN networks to offer improved customer assistance.

Application diagram



DX5401-B0/EX5401-B0

| Model | DX5401-B0 | EX5401-B0 |
|------------------------------------|---|---|
| Product name | Dual-Band Wireless AX6000 VDSL2 Gigabit IAD | Dual-Band Wireless AX6000 Gigabit Ethernet IAD |
| Hardware | | |
| WAN interface | DSL RJ-11/RJ45/GbE | RJ45/GbE |
| Ethernet port (10/100/1000) | 5 (1 for Ethernet WAN) | 5 (1 for Ethernet WAN) |
| POTS FXS port | 2 | 2 |
| USB port | 1 (USB 3.0) | 1 (USB 3.0) |
| VDSL | <ul style="list-style-type: none"> • G.993.1 VDSL • G.993.2 VDSL2 <ul style="list-style-type: none"> ▪ Band plan Annex A, over POTS ▪ Band plan Annex B, over ISDN • Support VDSL profiles: 8a/b/c/d, 12a/b, 17a, 30a and 35b • G.vector • Long reach-VDSL(LR-VDSL) | - |
| ADSL | <ul style="list-style-type: none"> • G.992.1 (G.dmt) • G.992.2 (G.lite) • ANSI T1.413 compliant • G.992.3 (ADSL2) • G.992.5 (ADSL2+) • G.INP support | - |
| Router/bridge features | <ul style="list-style-type: none"> • IEEE 802.1D transparent bridge & basic spanning tree • PPPoE (RFC 2516) • PPPoA (RFC 2364) • MAC encapsulation routing/IPoE • Network Address Translation (NAT) • NAT virtual server (port forwarding) • DHCP client/server/relay with DHCP option 43/60/61/125 • DNS proxy/dynamic DNS • Static/policy route • IGMP v1, v2, v3 • IPv4/IPv6 | |
| Wireless | <ul style="list-style-type: none"> • Auto channel selection • WiFi Multimedia (WMM) • Wireless scheduling • Wireless output power management • Multiple SSID up to 4 • WiFi Protected Setup (WPS) • Intra-BSS traffic block • MAC address filtering • WPS 2.0 | |
| VLAN | <ul style="list-style-type: none"> • 802.1Q VLAN tagging/un-tagging • Support flexible traffic classification | |

| | | |
|--|---|--|
| Voice | | |
| SIP v2 (RFC 3261) | Yes | Yes |
| SIP account (URL type included) | Yes | Yes |
| G.168 echo cancellation | Yes | Yes |
| VAD/CNG | Yes | Yes |
| CODEC | G.711 a/μ (64K), G.726 (24/32K), G.722 | G.711 a/μ (64K), G.726 (24/32K), G.722 |
| DTMF detection and generation | Yes | Yes |
| DTMF: In-band and out-of-band | Yes | Yes |
| FAX, modem detection and pass-through | Yes | Yes |
| Call waiting | Yes | Yes |
| Call hold/call retrieve | Yes | Yes |
| Call transferring | Yes | Yes |
| Call forwarding | Yes | Yes |
| Caller ID | Yes | Yes |
| Three way conference | Yes | Yes |
| Dynamic jitter buffer | Yes | Yes |
| On hook, off hook and flash detection | Yes | Yes |
| DNS SRV | Yes | Yes |
| DSL compliance | | |
| Standards/profile | VDSL2 Vectoring (up to 35b)/ADSL2+ | - |
| Wireless | | |
| WLAN | 2.4 GHz 4x4 ax + 5 GHz 4x4 ax | 2.4 GHz 4x4 ax + 5 GHz 4x4 ax |
| Firewall | | |
| Stateful packet inspection | Yes | Yes |
| Denial of service | Yes | Yes |
| ICMP blocking | Yes | Yes |
| VPN | | |
| PPTP | Yes | Yes |
| L2TP | Yes | Yes |
| IPSec (Pass thru) | Yes | Yes |
| Management | <ul style="list-style-type: none"> • Web/HTTP: 3 level log-in via SSH or Telnet • Firmware upgrade via web/TFTP/FTP/TR-069 RPC method • Text based configuration • Configuration backup/update/restore default via Web • Configurable access control for remote management (interface and/port number) • DSL forum TR-069, TR-098 • TR-111 and TR-181 i2 • SNMP v1, v2 • Rom-D support • UPnP port forwarding rules on page | |
| Button | <ul style="list-style-type: none"> • Wireless On/Off • WPS • Reset | |

| | |
|-------------------------------------|---|
| Status LEDs indicators | <ul style="list-style-type: none"> • Power/System • WAN • Internet • LAN • WLAN-2.4G/WPS • WLAN-5G/WPS • VoIP • Fiber |
| Power consumption | 12 V DC, 3A |
| Package contents | <ul style="list-style-type: none"> • Device • Power adapter • Ethernet cable • Phone cable • Quick start guide |
| Environmental specifications | |
| Operating environment | <ul style="list-style-type: none"> • Temperature: 0°C to 40°C (32°F to 104°F) • Humidity: 10% to 90% (Non-condensing) |
| Storage environment | <ul style="list-style-type: none"> • Temperature: -30°C to 70°C (-22°F to 158°F) • Humidity: 10% to 95% (Non-condensing) |
| Physical specifications | |
| Dimensioin (WxDxH)(mm/in.) | 258 x 32 x 180/10.15 x 1.25 x 7.08 |
| Weight (g/lb.) | 521.8/1.15 |

Hardware interface

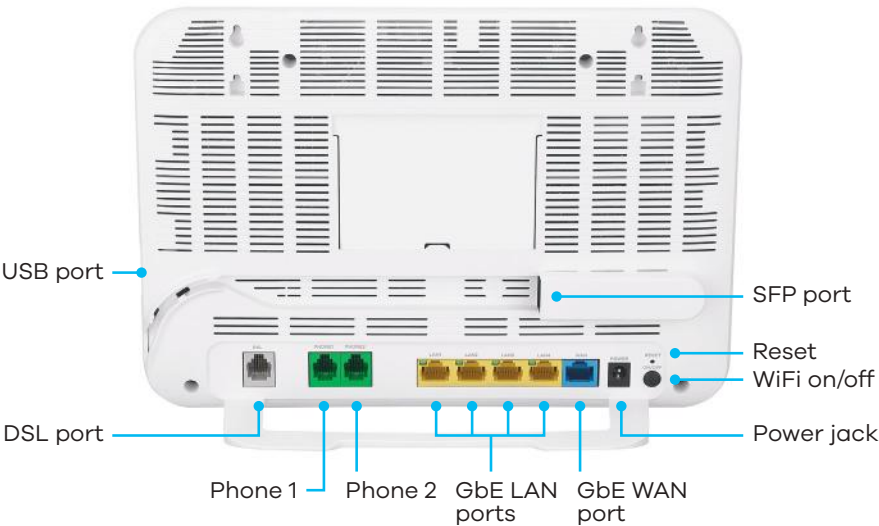
Front panel

DX5401-B0/EX5401-B0

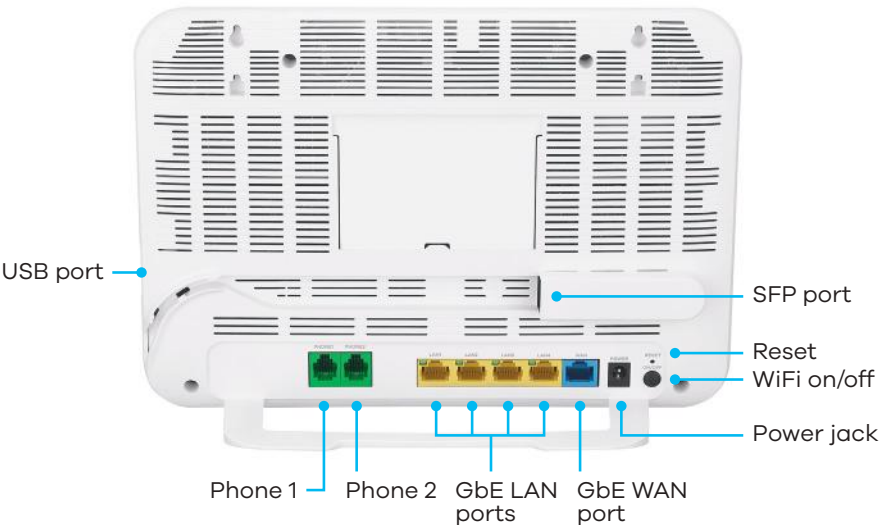


Rear panel

DX5401-B0



EX5401-B0







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Datasheet [DX5401-B0/EX5401-B0 Series](#)

