

Product Highlights

SEVERAL OPERATION MODES

Access point/router

HIGH POWER AND SPEED

New dual core (880MHz),
Gigabit Ethernet ports,
total wireless connection rate
up to 2600Mbps¹

EXTREME WI-FI PERFORMANCE

MU-MIMO for best rates, 4 data
streams for increased throughput

IPV6 SUPPORT

All needed functions
for up-to-date networking



DAP-600P

Wireless AC2600 Wave 2 MU-MIMO Dual Band PoE Access Point / Router

Wireless Interface

Using the DAP-600P device, you are able to quickly create a high-speed wireless network at home or in your office, which lets computers and mobile devices access it virtually anywhere (within the operational range of your wireless network). Simultaneous activity of 2.4GHz band and 5GHz band allows performing a wide range of tasks. The access point can operate as a base station for connecting wireless devices of the standards 802.11a, 802.11b, 802.11g, 802.11n, and 802.11ac.

DAP-600P delivers reliable, high-speed wireless performance up to 1732Mbps for 5GHz using the enhanced 802.11ac Wave 2 standard and up to 800Mbps for 2.4GHz.

Secure Wireless Connection

The device supports multiple functions for the wireless interface: several security standards (WEP, WPA/WPA2), MAC address filtering, different operation modes (access point, router, client), WPS, WMM.

Advanced Capabilities of Wireless Network

The Super MESH² function allows to quickly connect multiple D-Link devices supporting Super MESH into one transport network, for example, when it's required to provide high-quality Wi-Fi coverage without dead zones in living units of complicated planning or it's needed to create a large temporary Wi-Fi network for an outdoor event.

Multi-user MIMO technology allows to distribute the access point's resources to let multiple wireless clients use the Wi-Fi network efficiently, keeping high rates for HD media streaming, lag-free gaming, and fast transfer of large files.

Transmit Beamforming technology allows to flexibly change the antennas' radiation pattern and to redistribute the signal directly to wireless devices connected to the access point.

Smart adjustment of Wi-Fi clients is useful for networks based on several D-Link access points or routers – when the smart adjustment function is configured on each of them, a client always connects to the access point (router) with the highest signal level.

Support of guest Wi-Fi network in the router mode allows you to create a separate wireless network with individual security settings and maximum rate limitation. Devices connected to the guest network will be able to access the Internet, but will be isolated from the devices and resources of the access point's LAN.

¹ Up to 800Mbps for 2.4GHz and up to 1732Mbps for 5GHz.

² Super MESH is not compatible with EasyMESH. Super MESH can be unavailable in some FW versions (for the latest data, please refer to the page of the relevant device).

WAN Port with PoE Support

The access point is equipped with a WAN port with Power over Ethernet (PoE) support which allows to use one Ethernet cable for data and power transfer. In the access point mode, the port with PoE support is used as a LAN port.

Several Operation Modes

In the access point mode, you are able to use DAP-600P to create a wireless network or to connect to a wired router. In the router mode, you are able to connect DAP-600P to a cable or DSL modem or to a private Ethernet line and use a high-speed Internet connection to successfully fulfill a wide range of professional tasks.

The “client” function is available in both modes and allows using DAP-600P as a wireless client and a wireless repeater in the access point mode and as a WISP repeater in the router mode.

Security

The SSH protocol support provides more secure remote configuration and management of the access point due to encryption of all transmitted traffic, including passwords.

Now the schedules are also implemented; they can be applied to the rules of various filters and used to reboot the access point at the specified time or every specified time period and to enable/disable the wireless network.

Easy configuration and update

You can configure the settings of the DAP-600P device via the user-friendly web-based interface (the interface is available in two languages – in Russian and in English).

The configuration wizard allows you to connect DAP-600P to a wired or wireless ISP (when switched to the router mode) in several simple steps or quickly set needed parameters for operation as an access point, repeater, or client (when switched to the access point mode).

You can simply update the firmware: when the Internet access is provided, the access point itself finds approved firmware on D-Link update server and notifies when ready to install it.

Hardware	
Processor	<ul style="list-style-type: none"> MT7621AT (880MHz, dual core)
RAM	<ul style="list-style-type: none"> 128MB, DDR3 SDRAM
Flash	<ul style="list-style-type: none"> 16MB, SPI
Interfaces	<ul style="list-style-type: none"> 10/100/1000BASE-T WAN port with PoE support 10/100/1000BASE-T LAN port
LEDs	<ul style="list-style-type: none"> POWER / WLAN INTERNET LAN
Buttons	<ul style="list-style-type: none"> RESET button to restore factory default settings
Antenna	<ul style="list-style-type: none"> Four internal dual band antennas (3dBi gain)
MIMO	<ul style="list-style-type: none"> 4 x 4, MU-MIMO
Power connector	<ul style="list-style-type: none"> Power input connector (12V DC, 1.5A)

Software	
Operation Modes	<ul style="list-style-type: none"> Access point Router
WAN connection types	<ul style="list-style-type: none"> PPPoE IPv6 PPPoE PPPoE Dual Stack Static IPv4 / Dynamic IPv4 Static IPv6 / Dynamic IPv6 PPPoE + Static IP (PPPoE Dual Access) PPPoE + Dynamic IP (PPPoE Dual Access) PPTP/L2TP + Static IP PPTP/L2TP + Dynamic IP
Network functions	<ul style="list-style-type: none"> DHCP server/relay Advanced configuration of built-in DHCP server Stateful/Stateless mode for IPv6 address assignment, IPv6 prefix delegation Automatic obtainment of LAN IP address (for access point/repeater/client modes) DNS relay Dynamic DNS Static IPv4/IPv6 routing IGMP Proxy RIP Support of UPnP Support of VLAN WAN ping respond Support of SIP ALG Support of RTSP WAN failover Autonegotiation of speed, duplex mode, and flow control/Manual speed and duplex mode setup for each Ethernet port Built-in UDPXY application
Firewall functions	<ul style="list-style-type: none"> Network Address Translation (NAT) Stateful Packet Inspection (SPI) IPv4/IPv6 filter MAC filter URL filter DMZ Virtual servers Built-in SkyDNS web content filtering service
VPN	<ul style="list-style-type: none"> IPsec/PPTP/L2TP/PPPoE pass-through PPTP/L2TP tunnels IPsec tunnels Transport/Tunnel mode IKEv1/IKEv2 support DES encryption NAT Traversal Support of DPD (Keep-alive for VPN tunnels)

Software	
Management and monitoring	<ul style="list-style-type: none"> · Local and remote access to settings through SSH/TELNET/WEB (HTTP/HTTPS) · Bilingual web-based interface for configuration and management (Russian/English) · Notification on connection problems and auto redirect to settings · Firmware update via web-based interface · Automatic notification on new firmware version · Saving/restoring configuration to/from file · Support of logging to remote host · Automatic synchronization of system time with NTP server and manual time/date setup · Ping utility · Traceroute utility · TR-069 client · SNMP agent (SNMPv2/v3) · Schedules for filters rules, automatic reboot, and enabling/disabling wireless network · Automatic upload of configuration file from ISP's server (Auto Provision)

Wireless Module Parameters	
Standards	<ul style="list-style-type: none"> · IEEE 802.11ac Wave 2 · IEEE 802.11a/b/g/n
Frequency range <i>The frequency range depends upon the radio frequency regulations applied in your country</i>	<ul style="list-style-type: none"> · 2400 ~ 2483.5MHz · 5150 ~ 5350MHz · 5650 ~ 5850MHz
Wireless connection security	<ul style="list-style-type: none"> · WEP · WPA/WPA2 (Personal/Enterprise) · MAC filter · WPS (PBC/PIN)
Advanced functions	<ul style="list-style-type: none"> · Super Mesh function · "Client" function (access point mode) Wireless network client Wireless network repeater · "Client" function (router mode) WISP repeater · WMM (Wi-Fi QoS) · Information on connected Wi-Fi clients · Advanced settings · Smart adjustment of Wi-Fi clients · Guest Wi-Fi / support of MBSSID · Limitation of wireless network rate · Periodic scan of channels, automatic switch to least loaded channel · Support of 802.11ac (5GHz) and 802.11n (2.4GHz) TX Beamforming · Wider bandwidth (up to 160MHz) · Autonegotiation of channel bandwidth in accordance with environment conditions (20/40 Coexistence) · Support of STBC
Wireless connection rate³	<ul style="list-style-type: none"> · IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, and 54Mbps · IEEE 802.11b: 1, 2, 5.5, and 11Mbps · IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, and 54Mbps · IEEE 802.11n (2.4GHz): 6.5–600Mbps (MCS0–MCS30) to 800Mbps (QAM256) · IEEE 802.11n (5GHz): from 6.5 to 600Mbps (from MCS0 to MCS30) · IEEE 802.11ac (5GHz): from 6.5 to 1732Mbps (from MCS0 to MSC9)

³ Maximum wireless signal rate is derived from IEEE standard 802.11ac and 802.11n specifications. In order to get the rate of 800Mbps in the 2.4GHz band, a Wi-Fi client should support MIMO 4x4 and QAM256 modulation scheme. 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.

Wireless Module Parameters

Transmitter output power

The maximum value of the transmitter output power depends upon the radio frequency regulations applied in your country

- 802.11a (typical at room temperature 25 °C)
17dBm at 6, 54Mbps
- 802.11b (typical at room temperature 25 °C)
17dBm at 1, 11Mbps
- 802.11g (typical at room temperature 25 °C)
17dBm at 6, 54Mbps
- 802.11n (typical at room temperature 25 °C)
17dBm at MCS0~6/8~14
16dBm at MCS7/15
- 802.11ac (typical at room temperature 25 °C)
17dBm at MCS0~6
16dBm at MCS7
15dBm at MCS8~9

Receiver sensitivity

- 802.11a (typical at PER < 10% (1000-byte PDUs) at room temperature 25 °C)
-82dBm at 6Mbps
-81dBm at 9Mbps
-79dBm at 12Mbps
-77dBm at 18Mbps
-74dBm at 24Mbps
-70dBm at 36Mbps
-66dBm at 48Mbps
-65dBm at 54Mbps
- 802.11b (typical at PER = 8% (1000-byte PDUs) at room temperature 25 °C)
-90dBm at 1Mbps
-90dBm at 2Mbps
-88dBm at 5.5Mbps
-86dBm at 11Mbps
- 802.11g (typical at PER < 10% (1000-byte PDUs) at room temperature 25 °C)
-82dBm at 6Mbps
-81dBm at 9Mbps
-79dBm at 12Mbps
-77dBm at 18Mbps
-74dBm at 24Mbps
-70dBm at 36Mbps
-66dBm at 48Mbps
-65dBm at 54Mbps
- 802.11n (typical at PER = 10% (1000-byte PDUs) at room temperature 25 °C)
HT20
-82dBm at MCS0/8
-79dBm at MCS1/9
-77dBm at MCS2/10
-74dBm at MCS3/11
-70dBm at MCS4/12
-66dBm at MCS5/13
-65dBm at MCS6/14
-64dBm at MCS7/15
HT40
-79dBm at MCS0/8
-76dBm at MCS1/9
-74dBm at MCS2/10
-71dBm at MCS3/11
-67dBm at MCS4/12
-63dBm at MCS5/13
-62dBm at MCS6/14
-61dBm at MCS7/15

Wireless Module Parameters	
Receiver sensitivity	<ul style="list-style-type: none"> · 802.11ac (typical at PER = 10% (1000-byte PDUs) at room temperature 25 °C) HT20 -82dBm at MCS0 -79dBm at MCS1 -77dBm at MCS2 -74dBm at MCS3 -70dBm at MCS4 -66dBm at MCS5 -65dBm at MCS6 -64dBm at MCS7 -56dBm at MCS8 HT40 -79dBm at MCS0 -76dBm at MCS1 -74dBm at MCS2 -71dBm at MCS3 -67dBm at MCS4 -63dBm at MCS5 -62dBm at MCS6 -61dBm at MCS7 -56dBm at MCS8 -54dBm at MCS9 HT80 -76dBm at MCS0 -73dBm at MCS1 -71dBm at MCS2 -68dBm at MCS3 -64dBm at MCS4 -60dBm at MCS5 -59dBm at MCS6 -58dBm at MCS7 -53dBm at MCS8 -51dBm at MCS9
Modulation schemes	<ul style="list-style-type: none"> · 802.11a: BPSK, QPSK, 16QAM, 64QAM with OFDM · 802.11b: DQPSK, DBPSK, DSSS, CCK · 802.11g: BPSK, QPSK, 16QAM, 64QAM with OFDM · 802.11n: BPSK, QPSK, 16QAM, 64QAM, 256QAM with OFDM · 802.11ac: BPSK, QPSK, 16QAM, 64QAM, up to 256QAM with OFDM

Physical Parameters	
Dimensions	<ul style="list-style-type: none"> · 213 x 213 x 38 mm (8 x 8 x 1.5 in)

Operating Environment	
Power	<ul style="list-style-type: none"> · External DC power adapter 12V/1.5A (not included in the delivery package) · PoE: 802.3at (16W), 48V/0.5A
Temperature	<ul style="list-style-type: none"> · Operating: from 0 to 40 °C · Storage: from -20 to 65 °C
Humidity	<ul style="list-style-type: none"> · Operating: from 10% to 90% (non-condensing) · Storage: from 5% to 95% (non-condensing)

Delivery Package	
<ul style="list-style-type: none"> · Access point DAP-600P · Wall mounting bracket with mounting kit · "Quick Installation Guide" (brochure) 	