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OWR1530AXG

AX1500 Wi-Fi 6 Mesh Gigabit Router

Wi-Fi 6 (802.11ax), 2.4/5GHz, 1x1000Base-T WAN, 3x1000Base-T LAN, wall mounting

OWR1530AXG is a dual-band AX1500 Wi-Fi 6 Mesh gigabit router with 1 1000Mbps WAN port and 3 1000Mbps LAN ports.

The ORIGO OWR1530AXG wireless router is designed to set up home networks with uninterrupted internet access with plans of up to 1000Mbps, high-speed dual-band Wi-Fi 6, support for IPTV in Ultra HD quality and parental control functions.

Wi-Fi operates in two frequency bands: with speeds of up to 1201Mbps in the 5GHz band and up to 300Mbps in the 2.4GHz band. Support for Mesh Wi-Fi allows to connect several OWR1530AXG routers into one network and provide seamless Wi-Fi coverage in country houses, multi-room apartments, and other premises with large area and complicated layout.

The router is fully adapted to work with IPTV, supports the creation of a guest Wi-Fi network with WPA3 protection and parental control functionality with using a URL filter and the SkyDNS content filtering service.

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Key Features

- For internet plans with speeds up to 1000Mbps
- AX1500 Wi-Fi 6 with speeds of up to 1201Mbps in the 5GHz band and up to 300Mbps in the 2.4GHz band
- 1 Gigabit WAN port, 3 Gigabit LAN ports
- 4 omnidirectional 5dBi antennas
- Mesh Wi-Fi support to extend wireless coverage
- MU-MIMO and OFDMA for simultaneous operation without lags or interruptions
- Smooth IPTV streaming in HD and Ultra HD quality
- Parental control functions
- Wall mounting available

Specification

Hardware

Processor	• RTL8197H (1GHz)
RAM	• 128MB, DDR2
Flash	• 128MB, SPI NAND
Ports	• 1 10/100/1000BASE-T WAN port • 3 10/100/1000BASE-T LAN ports
LEDs	• Power • WAN • LAN1 • LAN2 • LAN3 • 2.4 GHz • 5 GHz • WPS • FW Update
Buttons	• ON/OFF button to power on/power off • RESET button to restore factory default settings • Wi-Fi button to enable/disable wireless network • WPS button to connect mesh network devices and set up wireless connection

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Antennas	• 4 external non-detachable omnidirectional 5dBi antennas
MIMO	• 2 x 2, MU-MIMO
Power Connector	• Power input connector (DC)
Mounting	• Desktop • Wall

Wi-Fi Parameters

Standards	• IEEE 802.11ax • IEEE 802.11ac Wave 2 • IEEE 802.11a/b/g/n • IEEE 802.11k/v • IEEE 802.11w
Frequency Range	• 2400 ~ 2483.5MHz • 5150 ~ 5350MHz • 5650 ~ 5850MHz
Wireless Connection Rate	• 2.4GHz - 11n: up to 300Mbps - 11g: up to 54Mbps - 11b: up to 11Mbps • 5GHz - 11ax: up to 1201Mbps - 11ac: up to 867Mbps - 11n: up to 300Mbps - 11a: up to 54Mbps
Wireless Connection Security	• WPA/WPA2 (Personal/Enterprise) • WPA3 (Personal) • MAC filter • WPS (PBC/PIN)
Advanced Functions	• Support of Mesh Wi-Fi • WMM (Wi-Fi QoS) • Information on connected Wi-Fi clients • Advanced settings • Guest Wi-Fi / support of MBSSID

	• Rate limitation for wireless network
	• Periodic scan of channels, automatic switch to least loaded channel
	• Support of 5GHz TX Beamforming
	• Autonegotiation of channel bandwidth in accordance with environment conditions (20/40 Coexistence)
	• Support of OFDMA technology
	• Support of TWT technology
	• Support of Band Steering
Transmitter Output Power	• Less than 20dBm (100mW)

Receiver Sensitivity	• 2.4GHz
	  - 11b (11Mbps): -79dBm
	  - 11g (54Mbps): -68dBm
	  - 11n (HT20): -67dBm
	  - 11n (HT40): -64dBm
	• 5GHz
	  - 11a: -74dBm
	  - 11n (HT20): -70dBm
	  - 11n (HT40): -67dBm
	  - 11ac (VHT20): -67dBm
	  - 11ac (VHT40): -61dBm
	  - 11ac (VHT80): -57dBm
	  - 11ax (HE20): -64dBm
	  - 11ax (HE40): -61dBm
	  - 11ax (HE80): -58dBm

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Software

Operating Modes	• Router • Access point • Wi-Fi client • Wi-Fi repeater • WISP repeater
WAN Connection Types	• 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	• 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/MLD 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
	• Wake-on-LAN support
Firewall	• Network Address Translation (NAT)
	• Stateful Packet Inspection (SPI)
	• IPv4/IPv6 filter
	• MAC filter
	• URL filter
	• Ad blocking function
	• DMZ
	• Virtual servers
	• Built-in SkyDNS web content filtering service
VPN	• IPsec/PPTP/L2TP/PPPoE pass-through
	• PPTP/L2TP tunnels
	• L2TP over IPsec client
	• IPsec tunnels
	- Transport/Tunnel mode
	- IKEv1/IKEv2 support
	- DES encryption
	- NAT Traversal
	- Support of DPD (Keep-alive for VPN tunnels)
Management and Monitoring	• Local and remote access to settings through SSH/TELNET/WEB (HTTP/HTTPS)
	• Web-based interface for configuration and management
	• 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
	• Schedules for rules and settings of firewall, automatic reboot, and enabling/disabling wireless network and Wi-Fi filter

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- Automatic upload of configuration file from server of internet service provider (Auto Provision)
- Configuration of action for hardware buttons

Physical Parameters

Device Dimensions (L x W x H)	• 190 x 119 x 40 mm
Device Weight	• 260 g
Package Dimensions	• 25.5 x 22.8 x 5.6 cm

Operating Conditions

Power	• Output: 12V DC, 1A
Max Power Consumption	• 9W
Temperature	• Operating: from 0 to 40 °C • Storage: from -10 to 70 °C
Humidity	• Operating: from 10% to 90% • Storage: from 5% to 95%

Package Contents

Package Contents	• Router OWR1530AXG • Power adapter • Ethernet cable • Quick Installation Guide

Order Info

OWR1530AXG	AX1500 Wi-Fi 6 Router, 1000Base-T WAN, 3x1000Base-T LAN