



OWR3030AXG

AX3000 Wi-Fi 6 Gigabit Router

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



OWR3030AXG is a dual-band AX3000 Wi-Fi 6 gigabit router with 1 1000Mbps WAN port and 3 1000Mbps LAN ports.

The ORIGO OWR3030AXG 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.

The Multi-WAN feature allows to configure multiple WAN ports and connect to different internet service providers. If the primary connection fails, the router will automatically switch to the backup one.

Wi-Fi operates in two frequency bands: with speeds of up to 2402Mbps in the 5GHz band and up to 574Mbps in the 2.4GHz band. Support for MU-MIMO and OFDMA technologies provides high speed and minimal latency when multiple devices are connected simultaneously.

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.



Key Features

- For internet plans with speeds up to 1000Mbps
- AX3000 Wi-Fi 6 with speeds of up to 2402Mbps in the 5GHz band and up to 574Mbps in the 2.4GHz band
- Dual-core 1.3MHz processor, 256MB RAM, 128MB Flash
- 1 Gigabit WAN port, 3 Gigabit LAN ports
- 5 omnidirectional 5dBi antennas for extensive Wi-Fi coverage
- MU-MIMO and OFDMA for simultaneous operation without lags or interruptions
- Airtime Fairness for improving overall Wi-Fi performance
- Multi-WAN for internet connection backup
- Smooth IPTV streaming in HD and Ultra HD quality
- Parental control functions

Specification

Hardware	
Processor	<ul style="list-style-type: none">• MT7981BA (1.3GHz, dual core)
RAM	<ul style="list-style-type: none">• 256MB, DDR3
Flash	<ul style="list-style-type: none">• 128MB, SPI NAND
Ports	<ul style="list-style-type: none">• 1 10/100/1000BASE-T WAN port• 3 10/100/1000BASE-T LAN ports
LEDs	<ul style="list-style-type: none">• Status
Buttons	<ul style="list-style-type: none">• RESET button to restore factory default settings• WPS button to set up wireless connection and enable/disable wireless network
Antennas	<ul style="list-style-type: none">• 5 external non-detachable omnidirectional 5dBi antennas
MIMO	<ul style="list-style-type: none">• 2.4GHz: 2x2:2, MU-MIMO• 5GHz: 3x3:2, MU-MIMO
Power Connector	<ul style="list-style-type: none">• Power input connector (DC)
Mounting	<ul style="list-style-type: none">• Desktop

Wi-Fi Parameters

Standards	<ul style="list-style-type: none">• IEEE 802.11ax• IEEE 802.11ac Wave 2• IEEE 802.11a/b/g/n
Frequency Range	<ul style="list-style-type: none">• 2400 ~ 2483.5MHz• 5150 ~ 5350MHz• 5650 ~ 5850MHz
Wireless Connection Rate	<ul style="list-style-type: none">• 2.4GHz<ul style="list-style-type: none">- 11ax: up to 574Mbps- 11n: up to 300Mbps- 11g: up to 54Mbps- 11b: up to 11Mbps• 5GHz<ul style="list-style-type: none">- 11ax: up to 2402Mbps- 11ac: up to 867Mbps- 11n: up to 300Mbps- 11a: up to 54Mbps
Wireless Connection Security	<ul style="list-style-type: none">• WPA/WPA2 (Personal/Enterprise)• WPA3 (Personal)• MAC filter• WPS (PBC/PIN)
Advanced Functions	<ul style="list-style-type: none">• WMM (Wi-Fi QoS)• Information on connected Wi-Fi clients• Advanced settings• Guest Wi-Fi / support of MBSSID• Periodic scan of channels, automatic switch to least loaded channel• Support of 2.4GHz/5GHz TX Beamforming• Autonegotiation of channel bandwidth in accordance with environment conditions (20/40 Coexistence)• Support of STBC• CoovaChilli authentication portal• Support of OFDMA technology• Support of TWT technology• Support of Airtime Fairness



Transmitter Output Power	<ul style="list-style-type: none">• Less than 20dBm (100mW)
Receiver Sensitivity	<ul style="list-style-type: none">• 2.4GHz<ul style="list-style-type: none">- 11b (11Mbps): -94dBm- 11g (54Mbps): -77dBm- 11n (HT20_MCS7): -72dBm- 11n (HT40_MCS7): -69dBm- 11ax (HE20_MCS11): -65dBm- 11ax (HE40_MCS11): -60dBm• 5GHz<ul style="list-style-type: none">- 11a (6Mbps): -91dBm- 11a (54Mbps): -74dBm- 11n (HT20_MCS7): -69dBm- 11n (HT40_MCS7): -66dBm- 11ac (VHT20_MCS8): -67dBm- 11ac (VHT40_MCS9): -62dBm- 11ac (VHT80_MCS9): -61dBm- 11ax (HE20_MCS11): -64dBm- 11ax (HE40_MCS11): -61dBm- 11ax (HE80_MCS11): -57dBm- 11ax (HE160_MCS11): -55dBm

Software

Operating Modes	<ul style="list-style-type: none">• Router• Access point• Wi-Fi client• Wi-Fi repeater• WISP repeater
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)

	<ul style="list-style-type: none">• PPTP/L2TP + Static IP• PPTP/L2TP + Dynamic IP• L2TP Dual Stack• 6in4• 6to4• 6rd
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• RIP• IGMP/MLD Proxy• Support of UPnP• Support of VLAN• WAN ping respond• Support of SIP ALG• Support of RTSP• WAN failover• LAN/WAN conversion• Multi-WAN support• Autonegotiation of speed, duplex mode, and flow control / Manual speed and duplex mode setup for each Ethernet port• Built-in UDPXY application• Equal load distribution while using several WAN connections (traffic balancing)• Support of VRRP• Port mirroring• Wake-on-LAN support



Firewall	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• IPsec/PPTP/L2TP/PPPoE pass-through• PPTP/L2TP servers• PPTP/L2TP tunnels• L2TP over IPsec client• GRE/EoGRE/IPIP tunnels• IPsec tunnels<ul style="list-style-type: none">- Transport/Tunnel mode- IKEv1/IKEv2 support- DES encryption- NAT Traversal- Support of DPD (Keep-alive for VPN tunnels)
Management and Monitoring	<ul style="list-style-type: none">• 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• SNMP agent



	<ul style="list-style-type: none">• Schedules for rules and settings of firewall, automatic reboot, and enabling/disabling wireless network and Wi-Fi filter• Automatic upload of configuration file from server of internet service provider (Auto Provision)• Configuration of action for hardware buttons
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Physical Parameters

Device Dimensions (L x W x H)	<ul style="list-style-type: none">• 215 x 142 x 37 mm
Device Weight	<ul style="list-style-type: none">• 380 g
Package Dimensions	<ul style="list-style-type: none">• 27.8 x 26.5 x 6 cm

Operating Conditions

Power	<ul style="list-style-type: none">• Output: 12V DC, 1.5A
Max Power Consumption	<ul style="list-style-type: none">• 14W
Temperature	<ul style="list-style-type: none">• Operating: from 0 to 40 °C• Storage: from -10 to 70 °C
Humidity	<ul style="list-style-type: none">• Operating: from 10% to 90%• Storage: from 5% to 90%

Package Contents

Package Contents	<ul style="list-style-type: none">• Router OWR3030AXG• Power adapter• Ethernet cable• Quick Installation Guide
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Order Info

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