



OWR1230ACG

AC1200 Wave 2 Dual-Band Wi-Fi Gigabit Router

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



OWR1230ACG is a wireless dual-band AC1200 Wave 2 gigabit router with 1 1000Mbps WAN port and 3 1000Mbps LAN ports.

The ORIGO OWR1230ACG wireless router is designed to set up home networks with uninterrupted internet access with plans of up to 1000Mbps, dual-band 802.11ac Wi-Fi, 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 867Mbps in the 5GHz band and up to 300Mbps in the 2.4GHz band. MU-MIMO and TX Beamforming technologies will help to improve performance in environments with multiple simultaneous connections and create high-quality coverage by directing a Wi-Fi signal towards each client.

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
- AC1200 Wave 2 Wi-Fi with speeds of up to 867Mbps in the 5GHz band and up to 300Mbps in the 2.4GHz band
- Dual-core 880MHz processor, 128MB RAM, 128MB Flash
- 1 Gigabit WAN port, 3 Gigabit LAN ports
- 4 omnidirectional 5dBi antennas for extensive Wi-Fi coverage
- 2x2 MU-MIMO for simultaneous operation without lags or interruptions
- 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">• MT7621DAT (880MHz, dual core)
RAM	<ul style="list-style-type: none">• 128MB, DDR3
Flash	<ul style="list-style-type: none">• 128MB, 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">• Power• WAN• 2.4 GHz Wi-Fi• 5 GHz Wi-Fi• WPS
Buttons	<ul style="list-style-type: none">• ON/OFF button to power on/power off• 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">• 4 external non-detachable omnidirectional 5dBi antennas
MIMO	<ul style="list-style-type: none">• 2 x 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 802.11ac Wave 2• IEEE 802.11a/b/g/n• IEEE 802.11k/v
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">- 11n: up to 300Mbps- 11g: up to 54Mbps- 11b: up to 11Mbps• 5GHz<ul style="list-style-type: none">- 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 5GHz TX Beamforming• Autonegotiation of channel bandwidth in accordance with environment conditions (20/40 Coexistence)• Support of STBC• CoovaChilli authentication portal
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): -87dBm - 11g (54Mbps): -75dBm - 11n (HT20_MCS0): -91dBm - 11n (HT20_MCS7): -73dBm - 11n (HT40_MCS0): -87dBm - 11n (HT40_MCS7): -70dBm • 5GHz <ul style="list-style-type: none"> - 11a: -74dBm - 11n (HT20_MCS0): -89dBm - 11n (HT20_MCS7): -70dBm - 11n (HT40_MCS0): -86dBm - 11n (HT40_MCS7): -67dBm - 11ac (VHT20_MCS0): -90dBm - 11ac (VHT20_MCS8): -68dBm - 11ac (VHT40_MCS0): -89dBm - 11ac (VHT40_MCS9): -63dBm - 11ac (VHT80_MCS0): -86dBm - 11ac (VHT80_MCS9): -61dBm
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 with OFDM • 802.11ac: BPSK, QPSK, 16QAM, 64QAM, up to 256QAM with OFDM
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

	<ul style="list-style-type: none">• Static IPv6 / Dynamic IPv6• PPPoE + Static IP (PPPoE Dual Access)• PPPoE + Dynamic IP (PPPoE Dual Access)• PPTP/L2TP + Static IP• PPTP/L2TP + Dynamic IP• L2TP Dual Stack• IPIP6 in DSLite mode• 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/EoIP/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



- 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

Physical Parameters

Device Dimensions (L x W x H)	<ul style="list-style-type: none">• 197 x 141 x 25 mm
Device Weight	<ul style="list-style-type: none">• 260 g
Package Dimensions	<ul style="list-style-type: none">• 27.1 x 24.7 x 3.9 cm

Operating Conditions

Power	<ul style="list-style-type: none">• Output: 12V DC, 1A
Max Power Consumption	<ul style="list-style-type: none">• 9W
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 OWR1230ACG• Power adapter• Ethernet cable• Quick Installation Guide
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Order Info

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