ORIGO

OWR1240ACG

AC1200 Wave 2 Dual-Band Mesh Wi-Fi Gigabit Router

Wi-Fi 5 (802.11ac), 2.4/5GHz, 1x1000Base-T WAN, 4x1000Base-T LAN, wall mounting

OWR1240ACG is a dual-band AC1200 Wave 2 Mesh Wi-Fi gigabit router with 1 1000Mbps WAN port and 4 1000Mbps LAN ports.

The ORIGO OWR1240ACG 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. Support for Mesh Wi-Fi allows to connect several OWR1240ACG 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. 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.

⬤ ORIGO

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, 4 Gigabit LAN ports
- 4 omnidirectional 5dBi antennas for extensive Wi-Fi coverage
- Mesh Wi-Fi support to extend wireless 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
- Wall mounting available

Specification

Hardware

Processor	• MT7621 (880MHz, dual core)
RAM	• 128MB, DDR3
Flash	• 128MB, NAND
Ports	• 1 10/100/1000BASE-T WAN port • 4 10/100/1000BASE-T LAN ports
LEDs	• Power • WAN • LAN 1-4 • 2.4G • 5G • WPS
Buttons	• 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	• 4 external non-detachable omnidirectional 5dBi antennas
MIMO	• 2 x 2, MU-MIMO

⬤ ORIGO

Power Connector	• Power input connector (DC)
Mounting	• Desktop • Wall

Wi-Fi Parameters

Standards	• IEEE 802.11ac Wave 2 • IEEE 802.11a/b/g/n
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
	  - 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	• Mesh Wi-Fi support - Up to 6 devices • 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

SORIGO

	• CoovaChilli authentication portal
Transmitter Output Power	• Less than 20dBm (100mW)

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 • L2TP Dual Stack • IPIP6 in DSLite mode • 6in4 • 6to4 • 6rd
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 • 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	• 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 servers
	• PPTP/L2TP tunnels
	• L2TP over IPsec client
	• GRE/EoGRE/EoIP/IPIP tunnels
	• 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
	• 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

Operating Conditions

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

Package Contents

Package Contents	• Router OWR1240ACG
	• Power adapter
	• Ethernet cable
	• Quick Installation Guide

ORIGO

Order Info

OWR1240ACG	AC1200 Wireless Router, 1000Base-T WAN, 4x1000Base-T LAN