



OWR1230ACF

AC1200 Wave 2 Dual-Band Wi-Fi Router

Wi-Fi 5 (802.11ac), 2.4/5GHz, 1x100Base-TX WAN, 3x100Base-TX LAN



OWR1230ACF is a wireless dual-band AC1200 Wave 2 router with 1 100Mbps WAN port and 3 100Mbps LAN ports.

The ORIGO OWR1230ACF wireless router is designed to set up home networks with uninterrupted internet access with plans of up to 100Mbps, dual-band 802.11ac Wi-Fi, support for IPTV and video services in HD and Full HD quality.

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 technology helps to improve performance and reduce latency in networks with multiple simultaneous connections.

The access point mode allows OWR1230ACF to be used for extending an existing wireless network, while the 802.11k/v standards support ensures high-quality Wi-Fi connectivity when mobile clients roam from one access point to another.



Key Features

- For internet plans with speeds up to 100Mbps
- AC1200 Wave 2 Wi-Fi with speeds of up to 867Mbps in the 5GHz band and up to 300Mbps in the 2.4GHz band
- 1 100Mbps WAN port, 3 100Mbps LAN ports
- 4 omnidirectional 5dBi antennas for extensive Wi-Fi coverage
- 2x2 MU-MIMO for simultaneous operation without lags or interruptions
- 802.11k/v support for fast roaming when extending coverage
- Multi-WAN for internet connection backup
- Adapted for IPTV: IGMP, 802.1Q VLAN, and UDPXY support.

Specification

Hardware

Processor	<ul style="list-style-type: none">• MT7628DAN (580MHz)
RAM	<ul style="list-style-type: none">• 64MB, DDR3, built in processor
Flash	<ul style="list-style-type: none">• 16MB, SPI
Ports	<ul style="list-style-type: none">• 1 10/100BASE-TX WAN port• 3 10/100BASE-TX 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) • 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 • Autonegotiation of channel bandwidth in accordance with environment conditions (20/40 Coexistence) • Support of STBC
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): -90dBm - 11g (54Mbps): -80dBm - 11n (HT20_MCS0): -92dBm - 11n (HT20_MCS7): -76dBm - 11n (HT40_MCS0): -90dBm

	<ul style="list-style-type: none"> - 11n (HT40_MCS7): -71dBm • 5GHz - 11a: -77dBm - 11n (HT20_MCS0): -92dBm - 11n (HT20_MCS7): -75dBm - 11n (HT40_MCS0): -88dBm - 11n (HT40_MCS7): -70dBm - 11ac (VHT20_MCS0): -93dBm - 11ac (VHT20_MCS8): -69dBm - 11ac (VHT40_MCS0): -92dBm - 11ac (VHT40_MCS9): -70dBm - 11ac (VHT80_MCS0): -88dBm - 11ac (VHT80_MCS9): -68dBm
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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
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Software

Operating Modes	<ul style="list-style-type: none"> • Router • Access point • Wi-Fi client • Wi-Fi repeater • WISP repeater
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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
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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• 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• 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• DMZ• Virtual servers
VPN	<ul style="list-style-type: none">• IPsec/PPTP/L2TP/PPPoE pass-through• PPTP/L2TP 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

	<ul style="list-style-type: none"> • 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
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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 OWR1230ACF • Power adapter • Ethernet cable • Quick Installation Guide
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Order Info

OWR1230ACF	AC1200 Wireless Router, 100Base-TX WAN, 3x100Base-TX LAN
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