



WSK-8001 Version: 1

AC1200 Dual Band Range Extension Wireless Starter Kit

The LevelOne WSK-8001 AC1200 Dual Band Wi-Fi Kit contains a WGR-8031 wireless gigabit router and a WRE-8011E Wi-Fi extender, providing an excellent solution for Wi-Fi network speed and coverage. The kit is capable of up to 1200Mbps across 2.4 and 5GHz bandwidths combined. The kit provides a simple solution for giving your network an extra coverage boost, with the plug-and-play WRE-8011E automatically connecting to WGR-8031 to eliminate black spots. Flexible deployment options allow for optimal placement of the devices to maximize performance. This is an ideal solution for the home or office, or simply upgrading an 11n network to a dual-band 11ac network for greater speed, security and capacity.

Key Features

- Share your wireless network up to 1200Mbps
- For IEEE 802.11a/b/g/n/ac Wireless applications in 2.4/5 GHz frequency range
- Simple wireless connectivity and security with WPS push button
- Provides stable signals and extends coverage
- Quick and easy installation
- Provides up to 8 SSIDs to separate network traffic and enhance security
- Wireless signal on/off button

Specifications

System Specifications

Standards & Protocols:

IEEE 802.3 10-BASE-T, Ethernet

IEEE 802.3u 100-BASE-TX, Fast Ethernet

IEEE 802.3ab 1000BASE-T, Gigabit Ethernet(WGR-8031)

IEEE 802.11e Wi-Fi Multimedia (WMM)

IEEE 802.11a, IEEE 802.11b, IEEE 802.11g, IEEE 802.11n, IEEE 802.11AC Wireless Networking

Memory:

8MB Flash Rom/64MB DDR2

Connectors and Cabling:

1x 10/100Mbps Base-TX(WRE-8011E)

1x 10/100/1000Mbps Base-TX WAN Port(WGR-8031)

4x 10/100/1000Mbps Base-TX LAN Port(WGR-8031)

Button/Knob:

Power button (WGR-8031)

Reset button

WPS button

Wifi on/off button (WGR-8031)



Indicator:

Power, Wifi signal, WPS, LAN
WAN (WGR-8031)

Power Input:

110-220VAC (WRE-8011E)
DC12V / 1A (WGR-8031)

Number of NAT Sessions:

11000(WGR-8031)

Data Transfer Rate:

LAN: 10/100 Mbps(WRE-8011E)
LAN/WAN: 10/100/1000Mbps(WGR-8031)

Wireless

Operating Mode:

Repeater Mode, Bridge, AP

Encryption:

WEP 64/128-bit Web share key encryption WPA,WPA2,802.1x
WPA, WPA2-PSK TKIP/AES encryption, WPA-PSK802.1x

Receive Sensitivity(dBm):

WRE-8011E

2.4GHz:

802.11n (20MHZ_MSC0): Range (-85) dBm
802.11n (40MHZ_MCS0): Range (-82) dBm
802.11g 6Mbps: Range (-85) dBm
802.11g 54Mbps: Range (-68) dBm
802.11b 1Mbps: Range (-83) dBm
802.11b 11Mbps: Range (-76) dBm

5 GHz:

802.11a 6Mbps: Range (-85) dBm
802.11a 54Mbps: Range (-65) dBm
802.11n (20MHZ_MCS0): Range (-82) dBm
802.11n (40MHZ_MCS0): Range (-79) dBm
802.11ac (20MHZ_MCS0): Range (-82) dBm
802.11ac (40MHZ_MCS0): Range (-79) dBm
802.11ac (80MHZ_MCS0): Range (-76) dBm

WGR-8031

2.4GHz:

802.11n (20MHZ_MSC0): Range?-85? dBm
802.11n (40MHZ_MCS0): Range (-82) dBm
802.11g 6Mbps: Range (-85) dBm
802.11g 54Mbps: Range (-68) dBm
802.11b 1Mbps: Range (-83) dBm
802.11b 11Mbps: Range (-76) dBm

5GHz:

802.11a 6Mbps: Range (-85) dBm
802.11a 54Mbps: Range (-65) dBm
802.11n (20MHZ_MCS0): Range (-82) dBm
802.11n (40MHZ_MCS0): Range (-79) dBm
802.11ac (20MHZ_MCS0): Range (-82) dBm
802.11ac (40MHZ_MCS0): Range (-79) dBm
802.11ac (80MHZ_MCS0): Range (-76) dBm

Channel:

Ch.1 ~ 11 USA

Ch.1 ~ 13 EU

Ch.36~48

Ch. 52~ 165(FW can implement but need to apply DFS certificate)

EIRP(dBm):

WRE-8011E

(Controllable for different country regulations)

802.11ac: up to 15dBm ± 1dBm

802.11n: up to 17dBm ± 1dBm

802.11g: up to 20dBm ± 1dBm

802.11b: up to 20dBm ± 1dBm

WGR-8031

(Controllable for different country regulations)

802.11ac: up to 15dBm ± 1dBm

802.11n: up to 17dBm ± 1dBm

802.11g: up to 20dBm ± 1dBm

802.11b: up to 20dBm ± 1dBm

Antenna:

2.4GHz : 2 x 3dBi Internal Antenna(WRE-8011E)

5GHz: 2 x 4dBi Internal Antenna(WRE-8011E)

2x 5dBi Dual Band external Antenna(WGR-8031)

Frequency Band:

2.4 ~ 2.4835 GHz

5.15 ~ 5.25 GHz

5.25 ~ 5.825 GHz

Data Transfer Rate:

802.11ac : 866Mbps

802.11n: 300 Mbps

802.11g: 54 Mbps

802.11b: 11 Mbps

Features

General:

VPN: PPTP, IPSec, L2TP Passthrough

2.4G Multi-SSID: 4 SSIDs, 5G Multi-SSID: 4 SSIDs

Tag-based VLAN (WGR-8031)

MAC filtering (WGR-8031)

Security:

WGR-8031:

NAT Firewall

Virtual Server

DMZ

SSID Broadcast On/Off

Management:

Web-Based GUI Configuration

QoS:

IEEE 802.11e Wi-Fi Multimedia (WMM)

Environment



Temperature (°C):

Storage: -20 – 70°C

Operating: 0 – 40°C

Humidity (Non-condensing):

Storage: 20 ~ 95%

Operating: 20 ~ 90%

Installation:

Desktop

Physical Specifications

Dimensions (W x D x H mm):

105 x 62 x 78 mm(WRE-8011E)

140x106x30 mm(WGR-8031)

Weight (g):

0.11kg(WRE-8011E)

235g(WGR-8031)

Approval and Compliance

EMI/EMS:

CE

Order Information

WSK-8001

Package Contents

WSK-8001

Quick Installation Guide

RJ45 Network Cable