

WGR-6013 Version: 1



## 300Mbps Wireless Gigabit Router

The LevelOne WGR-6013 is a Wireless Gigabit Router, which uses IEEE 802.11b/g/n wireless standards to offer an extended operational range and high throughput rated at up to 300Mbps. Providing four 10/100/1000Mbps LAN ports, it maximizes high-speed Internet access capabilities. WGR-6013 is ideal for wired/wireless activities such as online gaming, video streaming, file sharing and downloading music amongst multiple users.

The router is also equipped with a WPS (Wi-Fi Protected Setup) button for wireless security, Energy Efficient Ethernet (IEEE 802.3az), WDS technology and IPv6.

The WGR-6013 provides a total solution for stable Internet connectivity that covers your entire home or office.



### Key Features

- Share your wireless network up to 300Mbps
- Enlarge wireless network coverage through WDS technology
- Concurrent Network Address Translation (NAT) sessions up to 20,000
- Auto Channel Selection for low interference band
- Supports IPv4/IPv6 network operation
- Effortless wireless security with a simple push of the WPS button
- Built-in Wake-on-LAN feature to startup/shutdown computers remotely
- Built-in robust firewall to protect Internet access against intruders
- Simple setup with user-friendly interface
- Minimize carbon footprint with advanced energy efficient technology (IEEE 802.3az)



## Highlight

### Eco-Conscious Design

LevelOne is always committed to providing significant energy savings products. With the implementation of the advanced energy efficiency technology (IEEE 802.3az), allowing for monitoring the link status of each port. Therefore reducing power consumption if a connected device is not active at a certain period of time. In this way, the power can be saved and utilized more effectively.

## Specifications

### System Specifications

#### Processor:

RT3352 400MHz

#### Connectors and Cabling:

4 x 10/100/1000Base-T RJ-45 LAN Port  
1 x 10/100/1000Base-T RJ-45 WAN Port

#### Button:

WPS / Reset Button

#### Indicator:

Status / WAN / Wireless LAN / LAN

#### Power:

DC 5V / 1.2A

#### Standards & Protocols:

General: IEEE 802.3 10-BASE-T, Ethernet  
IEEE 802.3u 100-BASE-TX, Fast Ethernet  
IEEE 802.3ab 1000BASE-T, Gigabit Ethernet  
IEEE 802.11e QoS provisioning at the MAC layer  
IEEE 802.1X Port-based Network Access Control (PNAC)  
IEEE 802.3az Energy-Efficient Ethernet  
IEEE 802.11b, IEEE 802.11g, IEEE 802.11n Wireless Networking  
Static-IP Address, Dynamic IP Address, PPPoE, PPTP, L2TP

### Physical Specifications

#### Dimensions (W x D x H mm):

119 x 185 x 32 mm

### Performance

#### Concurrent NAT Session:

20,000

#### Data Transfer Rate:

LAN: 10/100/1000Mbps

#### Wireless:

- IEEE 802.11n: 300 ~ 78 Mbps
- IEEE 802.11g: 54 ~ 6 Mbps
- IEEE 802.11b: 11 ~ 1 Mbps

### Wireless

#### Operating Mode:

Wireless Distribution System (WDS): One-to-Many peer AP  
Wireless Internet Service Provider (WISP)  
Auto Channel Selection

#### Encryption:

WEP 64/128-bit Web share key encryption  
WPA, WPA2, WPA-PSK/WPA2-PSK, 802.1x RADIUS  
128-bit TKIP/AES encryption  
SSID Broadcast On/Off  
Wi-Fi Protect Setup (WPS) Push Button

**Receive Sensitivity(dBm):**

802.11n (20MHZ): Range -72dBm ~ 87dBm  
802.11n (40MHZ): Range -68dBm ~ 87dBm  
802.11g: Range -72dBm ~ 91dBm Error Rate = 10% at room temperature.  
802.11b: Range -86dBm ~ 91dBm Error Rate = 8% at room temperature.

**Channel:**

Ch.1 ~ 11 USA  
Ch.1 ~ 13 EU  
Auto Channel Selection

**EIRP(dBm):**

802.11n:12dbm ±1dBm  
802.11g:14dbm ±1dBm  
802.11b:17dbm ±1dBm

**Antenna:**

2 x 2dBi detachable antenna (5dBi option available)

**Frequency Band (GHz):**

USA: 2.412 ~ 2.462 GHz  
EU: 2.412 ~ 2.472 GHz

**Data Transfer Rate:**

IEEE 802.11n: 300 ~ 78 Mbps  
IEEE 802.11g: 54 ~ 6 Mbps  
IEEE 802.11b: 11 ~ 1 Mbps

## Features

**General:**

VPN: PPTP, IPSec, L2TP Passthrough  
DNS: Dynamic DNS (DDNS)  
DHCP: Dynamic IP Address (DHCP Client)  
IPv6: Supports IPv4 / IPv6 network operation

**Security:**

Firewall: DoS Detection; NAT Firewall with SPI mode; Virtual Server, DMZ; Schedule-Based MAC, IP, Domain and URL Filtering; ALG  
Access Control: Domain Access Control  
Filtering: IP / MAC Address Filter

**Management:**

Diagnosis: Syslog  
Network: Remote/HTTP Management  
Simple Network Management Protocol (SNMP)

## Environment

**Power Saving:**

IEEE 802.3az Energy Efficient Ethernet:  
- Active Link Detection for LAN Ports  
- Low Power Wireless Mode  
- Smart Scheduled Sleep Mode

**Temperature (°C):**

Operating: 0°C ~ 40°C  
Storage: -10°C ~ 70°C



**Humidity (Non-condensing):**

Storage: 0 ~ 95%

Operating: 10 ~ 90%

**Others**

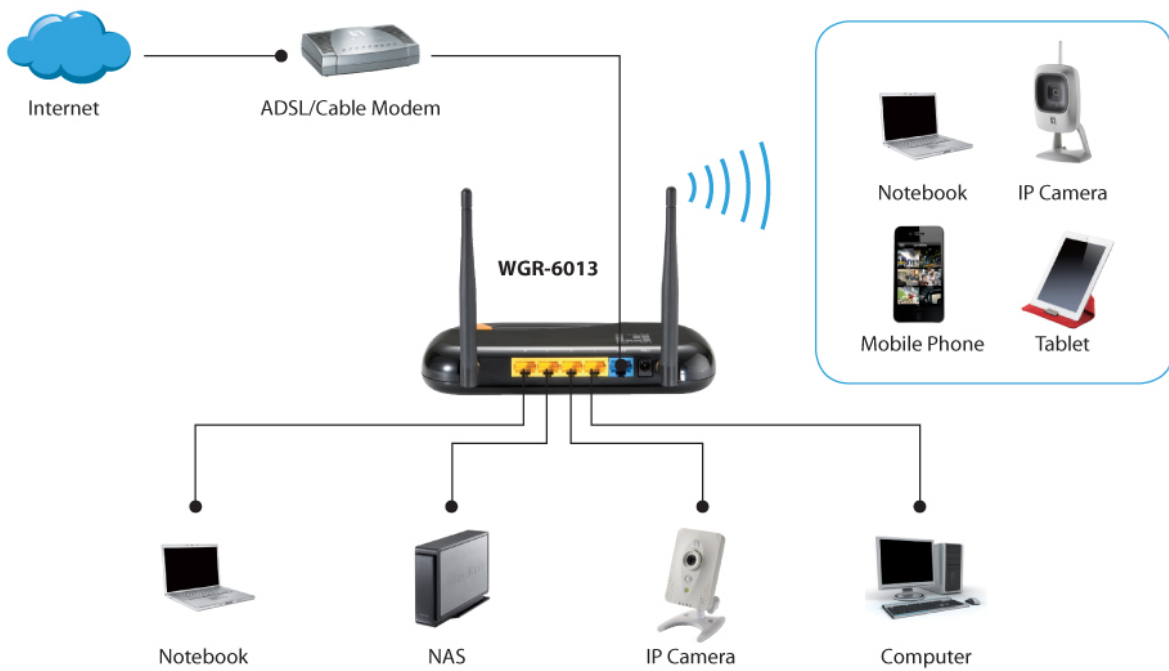
**Approval and Compliance:**

CE, FCC, RoHS

**Deployment:**

Desktop, wall-mountable

**Diagram**



**Order Information**

WGR-6013

**Package Contents**

Power Adapter

Antenna (x2)

RJ45 Ethernet Cable

Quick Installation Guide

Resource CD (User Manual, Utility)