

# H3C Aolynk UR105G-P high-performance enterprise PoE gateway

## Product Overview

H3C Aolynk UR105G-P PoE Gateway is a high-performance enterprise-class router developed by New H3C Technologies Co., Ltd. (H3C) for small and medium-sized enterprise users. It adopts high-performance dual-core processor and advanced software architecture to provide higher bandwidth and VPN function performance. It's mainly applied for high-speed Internet access of small and micro enterprises, schools, hotels, catering, retail, entertainment, villas and other scenarios.



UR105G-P

## Product Features

### High-performance business processing capability

- Using high-performance dual-core CPU, combined with H3C's advanced hardware and software technology, to provide gigabit concurrent processing capabilities and excellent network experience
- NAT sessions: 40,000

### Multiple WAN load balance

- Single WAN by default, up to two WANs can be accessed concurrently
- Multiple WAN link load balancing modes are supported, such as telecom operator destination address based, WAN link bandwidth based, and policy-based routing
- Built-in telecom operator address library, and provide one-click download official website of the latest carrier address library, easy to operate

### Behavior control

- Support HTTP and HTTPS URL filtering, website blacklist and whitelist, keyword fuzzy matching
- Support the firewall function of packet filtering to flexibly define traffic control policies
- Support the IP-based network traffic rate limiting mechanism

## Network management

- Support Uweb management, configuration and upgrade of H3C Aolynk series wireless APs and switches
- Zero configuration of AP and switch, plug and play

## Enterprise-level VPN

- Support IPSec VPN, Support a variety of encryption algorithms, and facilitates enterprises to build virtual private networks over the Internet
- Support hardware VPN encryption engine and provides high-speed VPN encryption capability
- Support L2TP VPN and LNS and LAC modes

## Aolynk Cloud network management platform

- With the Aolynk Cloud network management platform, enterprises can enjoy professional network management and operation and maintenance services without having to purchase professional management servers and software, which greatly reduces the cost of network management for enterprise users and improves the network operation and maintenance management experience.
- You can remotely log in to the web of device through the Aolynk Cloud network management platform for function configuration and remote diagnosis.

## Product Specifications

### Hardware specifications

Name	UR105G-P
Recommended number of clients	100
Bandwidth	1Gbps
IPSec encryption performance	100Mbps
Number of IPSec VPN tunnels	100
NAT sessions	40,000
NAT mapping entry	100
Number of supported Aolynk APs	32
Max number of supported VLAN	16
CPU	Dual Core 880MHz
RAM	256MB
Flash	128MB

Name	UR105G-P
WAN Ethernet port	1*GE
LAN Ethernet port	4*GE (PoE+, single port Max 30W, 1 LAN port can be switched to WAN port)
Power consumption of the whole machine	63W
PoE maximum power	58W
AC power supply	Rated range: 100 to 240V 50/60Hz
Reset button	Support
Overall dimensions (W x D x H, mm)	190 x 125 x 27
Ambient temperature	0 to 40 ° C
Ambient humidity	5 to 95% (no condensation)
Certification	CE, CB, RoHS

Note: Recommended number of clients and bandwidth are recommended values for comprehensive evaluation under specific experimental environment, and may vary according to the actual environment on site

## Software Specifications

Features	Description
WAN Access	Support static IP address, DHCP, PPPoE Support link state detection, ICMP, DNS, NT Support static routing and policy-based routing
LAN	Support port-based VLAN configuration, MAC address learning, broadcast storm suppression, and traffic mirroring
QoS	Support limiting traffic per IP Support limiting traffic based on user groups
Security Features	Defines firewall filtering policies based on source and destination IP addresses and ports
	Support MAC address filtering and MAC address whitelist
	Support ARP scanning, ARP detection, and ARP protection
	DDoS attack defense and statistics Prevent WAN port Ping Prevent TCP syn scanning Prevent TCP Stealth FIN scanning Prevent TCP Xmas Tree scanning Prevent TCP Null scanning Prevent UDP scanning features Prevent Land attack function Prevent Smurf attack function Prevent WinNuke attacks

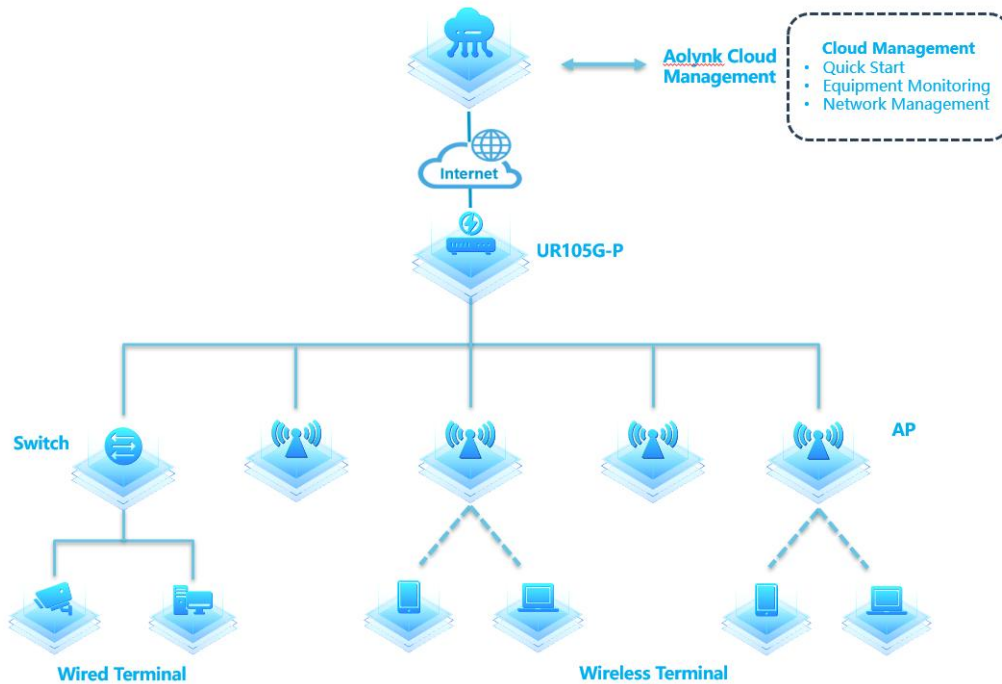
Features	Description
	Prevent Ping of Death attacks Prevent SYN Flood attacks UDP Flood attack prevention function Prevent ICMP Flood attack function Prevent IP Spoofing Prevent fragmented packet attacks Prevent TearDrop attacks Prevent Fraggle attack feature Support IP address-based and interface connection number limiting Support abnormal host traffic protection Support IP address traffic statistics and ranking Multi-ssid configuration The SSID can be bound to different Vlans
Multiple WAN load balancing	Load balancing based on telecom operator destination address Support load balancing based on link bandwidth Load balancing by user (IP address) Support PBR specified line forwarding Support end-to-end link detection and backup
Network Features	Support for DHCP Server Support NTP Client DDNS support IPTV support IPv6 support
VPN	IPSec VPN support Support 100 IPSec connections Support AH and ESP protocols IKE automatically establishes SA The ESP Support 3DES and AES encryption algorithms Support MD5 and SHA-1 authentication algorithms IKE main mode and aggressive mode NAT-T traversal Support IPSec connection configuration by domain name (DDNS) Support L2TP VPN (LAC and LNS)
Management and maintenance	Support WEB management pages Support AolynkCloud network management platform remote management

Note: All performance specifications are recommended by comprehensive evaluation in specific laboratory environment. There may be differences based on the actual environment on site.

## Typical Networking

## Small and medium sized network egress gateway

UR105G-P, as an gateway for small and medium-sized networks, provides excellent Internet experience through professional software and hardware platforms. And it Support intelligent management and operation and maintenance through Aolynk Cloud network management platform, which reduces the cost of network management and operation and provides a good network management experience.



Small and medium-sized network gateway networking diagram

- Multi-function integrated device, integrated PoE power supply, can directly power AP and camera, simplify networking. Its small size can adapt to a variety of scenes
- Support multiple Ethernet WAN interfaces, which can be connected to multiple lines of the same or different telecom operator for load balancing
- Support Uweb network management, and realizes the integrated wired and wireless networking of the enterprise Internet
- Support intelligent network management and maintenance through the Aolynk Cloud network management platform, reducing cost and providing network management experience



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