IGNITION DESIGN LABS

Next-generation Wi-Fi 7 Home Wireless Router

Product Introduction

IHR7036X is a high-speed BE3600 dual-band Wi-Fi7 wireless router (2.5G port).Compliant with IEEE 802.11a/b/g/n/ac/ax/be standards,IHR7036X supports 4K QAM modulation and Wi-Fi7 technologies such as MLO, MRU, Preamble Puncture, enabling simultaneous high-density data transmission for multiple client devices.Dual-band wireless supports 2 spatial streams, providing a maximum bandwidth of 3570Mbps and a maximum concurrent client connections of 256.

IHR7036X supports Mesh networking technology and builds a distributed wireless network using multiple devices to extend network coverage and provide best seamless connection nodes and bandwidth.

IHR7036X allows for the configuration of parental control features,paired with "Sprout Guard" app. These features include one-click internet disconnect and restore, setting permitted internet access time periods and daily duration limits, allocating reward time, implementing usage restrictions, blocking specific applications and websites, and activating a dedicated learning mode.

Product Feature

Dual-band Wi-Fi 7 network

- Complies with 802.11a/b/g/n/ac/ax/be standards
- Provides up to 2882 Mbps bandwidth in the 5GHz band and 688 Mbps in the 2.4GHz band.
- Supports MLO technology to establish multiple link communications with end users, send and receive information.
- Supports OFDMA technology and 4096-QAM modulation

Wi-Fi Mesh Networking

- Complies with standard Wi-Fi Mesh specification for seamless whole-home Wi-Fi coverage.
- Configures Mesh networking by clicking the buttons and achieves seamless roaming with one SSID.
- Ensures high-quality Mesh networking through channel negotiation and traffic control technologies.

High-speed network port and IPTV function

- Equipped with 1 WAN port(2.5G) and 4 Gigabit LAN ports to provide stable network connection with high bandwidth and low latency.
- Supports IPTV function and can flexibly configure routing ports as dedicated IPTV interfaces.
- Provides port binding and VLAN setting capabilities.

Rich and secure networking

- Provides multiple network connection types, including dynamic and static IPv4/IPv6, DHCP, PPPoE, routing mode, bridge mode, VLAN, and others, which are suitable for different ISP gateways and home network configurations.
- Supports a variety of security features including firewall, MAC filtering, WPA3, and others, ensuring a secure network environment.

Item	Parameter description
Power supply	• 12V 1.5A Power adapter
Overall power consumption	• ＜18W
Ethernet port	• 1 x 10/100/1000/2500M self-adaptive WAN port • 4 x 10/100/1000M self-adaptive LANport
Reset button	• 1 x Reset button
Mesh button	• 1 x Mesh button
Indicator	• 1 x indicator
Dimension	• 200 mm x 56 mm x 150 mm
Weight	• 0.6 kg
Operating temperature	• 0° C to +40° C
Storage temperature	• –20° C to +70° C
Relative humidity	• 5%–95% (no condensation)
Spatial streams	• 2.4G: 2×2 MIMO • 5G: 2×2 MIMO
Antenna type	• External 5dBi high-gain • 360° omnidirectional antenna
Antenna number	• 2×2.4GHz antenna • 2×5GHz antenna
Equipment status	supports real-time display of the following information: • WAN status and real-time downlink/uplink rates • Wi-Fi SSID password • Number of online devices • Network diagnostics • Device operational status
Working modes	• Routing mode • Bridge mode • Relay mode
Internet Settings	• Supports setting up DHCP, PPPOE, and static IP for internet access
Local Area Network IP	• Supports IP configuration
DHCP Service	• Supports configuration of DHCP address pool, default gateway, lease period, and DNS address
Dual-band Integration	• Supports configuration of dual-band integration
Wi-Fi Switch	• Supports switching Wi-Fi radio on and off
SSID/Password	• Supports configuration of Wi-Fi SSID and password
Encryption Method	• Supports configuration of Wi-Fi encryption method
Channel	• Supports configuration of Wi-Fi channel
Bandwidth	• Supports configuration of Wi-Fi bandwidth
Signal Strength	• Supports configuration of Wi-Fi signal strength, with three options available (green, standard, penetrating walls)
Guest Wi-Fi	• Supports configuration of guest Wi-Fi

Item	Parameter description
WPA	• Supports 802.1X, WPA2 Enterprise, WPA3
Mesh Function	• Supports rapid networking of multiple devices, expands Wi-Fi coverage, and allows viewing of the network topology diagram
System Information	• Supports display of external network, local area network status, and basic Wi-Fi information
DHCP Static IP	• Supports MAC and IP address binding, and assigns fixed IP addresses to terminals
Wi-Fi Advanced Settings	• Supports configuration of client isolation, TWT switch, OFDMA switch, MU-MIMO switch, RTS threshold configuration, and beacon interval configuration
WPS Function	• Supports WPS button, and page viewing of WPS switch and WPS status
DDNS Function	• Supports DDNS function, and supports common DDNS servers
UPnP	• Supports UPnP function switch
Port Forwarding	• Supports configuration of port forwarding rules
DMZ	• Supports DMZ configuration
IPv6 Settings	• Supports IPv6 address configuration
Wireless Timed Switch	• Supports timed activation of wireless signals
Online Clients	• Supports viewing of connected terminal information (including IP, MAC address, real-time rate, etc.)
Anti-Stealing Network	• Supports configuration of black and white lists (prevents others from stealing Wi-Fi network, making the network more secure)
Timed Restart	• Supports configuration of device timed restart
Time Settings	• Supports setting of device time
VPN	• Supports PPTP, LT2P, OpenVPN, and WireGuard dial-up to VPN servers
LED Control	• Supports turning off device LED indicators
IPTV	• Supports IPTV function
Upgrade	• Supports router software update and upgrade
Management Password	• Supports setting of router login password to enhance router security level
Restart	• Supports device software restart function, and can perform soft restart of the device through the page
Reset	• Supports device software reset function, and can restore factory settings of the device through the page
Parental Control	In combination with the "Sprout Guard" APP, it can achieve parental control functions: • One-click network disconnection and restoration • Set online time periods • Set online duration • Set reward duration • Set anti-addiction • Set internet usage time • Block websites and applications • View browsing history • Statistically analyze internet usage • Preferences • Set ad filtering • Set study mode • Manage personalized internet access