



**HORIZON**

**WiFi 7 Router**

**HW700BE**

# Product Overview

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The FA1704 is an entry-level WiFi 7 wireless router developed by MegaTower Technology. It is powered by a Qualcomm chip solution and supports dual-band concurrent operation on 2.4GHz and 5GHz frequencies. The router delivers all the advantages of the new WiFi 7 protocol, ensuring enhanced speed and performance.

Running on the OpenWRT system, the FA1704 enables advanced customization, secondary development, and seamless integration with third-party applications—offering users greater flexibility and control.

Designed for simplicity, the router requires no additional installation and features a plug-and-play setup. It supports Easymesh networking, allowing it to function as either a main node or sub-node. Users can easily pair it with other compatible devices to create a mesh network, ensuring broad and stable wireless coverage.

Additionally, the FA1704 includes an energy-saving mode that helps minimize power consumption, aligning with environmentally friendly and sustainable practices.

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# Product Highlights

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## — Latest WiFi 7 Standard with Dual-Band Concurrency

This router supports the latest WiFi 7 standard, operating on dual bands (2.4GHz and 5GHz) with 2x2 MIMO and a 160MHz ultra-wide bandwidth. It offers a theoretical maximum speed of up to 3600Mbps, delivering an exceptionally fast and smooth WiFi experience.

The device also incorporates OFDMA technology, enabling simultaneous data transmission to multiple devices. Combined with MU-MIMO, it ensures efficient and stable connections, allowing multiple users to enjoy seamless online access at the same time.

## — MLO: Faster and More Stable Wireless Performance

Multi-Link Operation (MLO) allows the router to operate across multiple frequency bands, including 2.4GHz, 5GHz, and 6GHz, for a more reliable and high-speed connection.

With MLO, users benefit from higher throughput, lower latency, and improved reliability, especially in high-traffic environments, ensuring a smoother and more consistent wireless experience.

## — One-Click Mesh Networking

Equipped with Easymesh functionality, the device can quickly form a Mesh network with other compatible routers at the press of a button. This feature significantly enhances network coverage and stability—ideal for large homes or multi-floor environments.

## — Versatile USB Connectivity

The router includes a USB-A 3.0 port, enabling flexible use for various devices and applications such as file sharing, media storage, or printer connectivity.

## — Green Mode: Energy Efficiency and Environmental Care

The device features a Green Mode that allows users to either manually configure or activate it with a single click to lower power consumption and support environmental sustainability. This mode optimizes energy use by reducing Wi-Fi transmission power and bandwidth, lowering USB speed, decreasing network operating rate, and turning off LED indicators.

### Product Specifications

	Hardware Specifications
	System Architecture
CPU	Qualcomm Quad-core Cortex A53 @ 1.1 GHz
Memory	DDR4: 512 MB NAND Flash: 256 MB
WiFi Chip	Qualcomm Pebble
	WiFi Specifications
WiFi Protocol	2.4 GHz: IEEE 802.11 b/g/n/ax/be 5 GHz: IEEE 802.11 a/n/ac/ax/be
MIMO	2.4 GHz: 2x2 MIMO 5 GHz: 2x2 MIMO
WiFi Bandwidth	2.4 GHz: 20/40 MHz 5 GHz: 20/40/80/160 MHz
Theoretical Throughput	Overall WiFi throughput: 3600 Mbps 2.4 GHz: 688 Mbps (2SS 40 MHz) 5 GHz: 2882 Mbps (2SS 160 MHz)
WiFi Antennas:	2.4 GHz: 2 internal omnidirectional antennas

	<b>Interfaces, Buttons &amp; Indicators</b>
<b>WAN Port</b>	1 × 2.5GE port (RJ45, adaptive for 100M/1000M/2500M)
<b>LAN Port</b>	3 × GE ports (RJ45, adaptive for 100M/1000M)
<b>Voice Port</b>	N/A
<b>USB Port</b>	1 × USB 3.0 Type-A
<b>Power Supply Port</b>	1 × DC Jack port
<b>Other Port</b>	N/A
<b>Indicators</b>	1 × Power: Green 1 × SYS: Green 1 × Internet: Green 1 × Mesh: Green / Yellow / Red 1 × WiFi: Green
<b>Buttons &amp; Pinholes</b>	1 × Reset pinhole 1 × WPS button 1 × Power On/Off button
	<b>Physical Specifications</b>
<b>Dimensions</b>	Without base: 48(L) × 120(D) × 182(H) mm With base: 89(L) × 120(D) × 182(H) mm
<b>Weight</b>	Approximately 400g
<b>Material</b>	ABS
<b>Colour</b>	White
<b>Installation</b>	Tabletop
	<b>Power Supply</b>
<b>Power Supply Mode</b>	Power adapter (Input: 100-240V, 50/60Hz)
<b>Output Voltage</b>	DC 12V
<b>Output Current</b>	DC 1.5A
<b>Power Consumption</b>	Standby – TBD

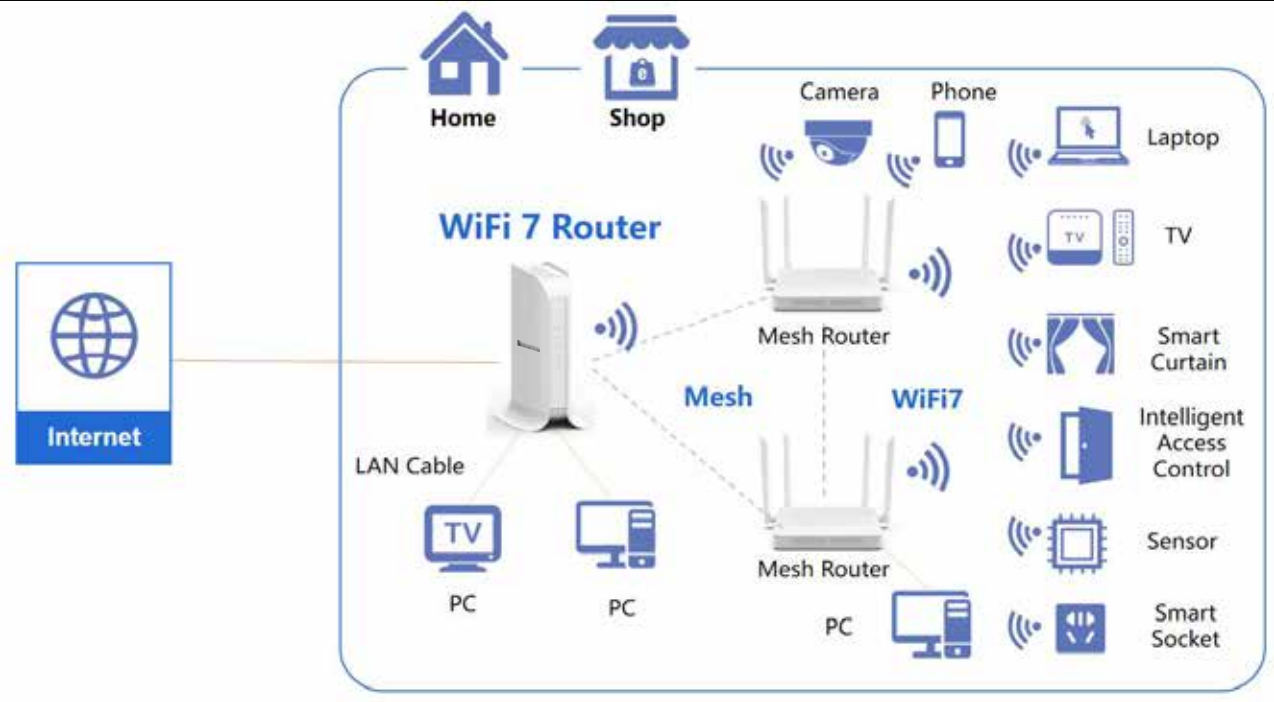
Environment Parameters	
Working Temperature	-10°C ~ +45°C
Storage Temperature	-20°C ~ +65°C
Working Humidity	5% ~ 95% (Non condensing)
Storage Humidity	5% ~ 95% (Non condensing)
Ingress Protection	5% ~ 95% (Non condensing)

	Software Specifications
Status Management	<ul style="list-style-type: none"> <li>Home / Dashboard</li> <li>System Status / Device Info</li> <li>WAN Status</li> <li>LAN Status</li> <li>WiFi Status</li> <li>TRO69 Status</li> <li>Traffic Statistics</li> </ul>
WAN Configuration	<ul style="list-style-type: none"> <li>Working Mode: Routing mode, Bridge mode</li> <li>IPv4, IPv6, IPv4/IPv6</li> <li>Single-WAN / Multiple-WAN</li> <li>PPPoE, DHCP Client/Server</li> <li>DNS, Dynamic DNS</li> </ul>
LAN Configuration	<ul style="list-style-type: none"> <li>DHCP Client/Server</li> <li>NAT/NAPT</li> <li>ALG</li> <li>MAC Management</li> </ul>
WiFi Configuration	<ul style="list-style-type: none"> <li>Main WiFi Settings (SSID, password, authentication encryption [OPEN/WPA/WPA2/WPA3], etc.)</li> <li>Advanced Settings (protocol, BW, channel, etc.)</li> </ul>

	<p>Guest WiFi</p> <p>Multiple SSID Settings</p> <p>WiFi Protected Setup (WPS)</p> <p>Band Steering</p> <p>Blacklist</p> <p>Multiple Link Operation</p> <p>Easymesh</p>
<b>Routing</b>	Static Routing (IPv4/IPv6)
<b>VPN Protocols</b>	<p>L2TP / PPTP</p> <p>IPsec*</p> <p>VXLAN*</p>
<b>Security &amp; Firewall</b>	<p>Basic Firewall</p> <p>Anti-Attack Protection (ARP, DDoS, etc.)</p> <p>Anti-Scan</p> <p>MAC Filtering</p> <p>DMZ</p> <p>Port Forwarding</p>
<b>Supplemental Functions</b>	<p>UPnP</p> <p>Parental Control</p> <p>USB Settings (File Sharing &amp; Storage Expansion via Samba)</p> <p>Energy Saving (Green Mode)</p>
<b>Device Management</b>	<p>Language Management</p> <p>User Management</p> <p>Firmware Upgrade &amp; Downgrade</p> <p>Remote Management: TR069, TR369, XMPP, SNMP*</p> <p>FOTA*</p>

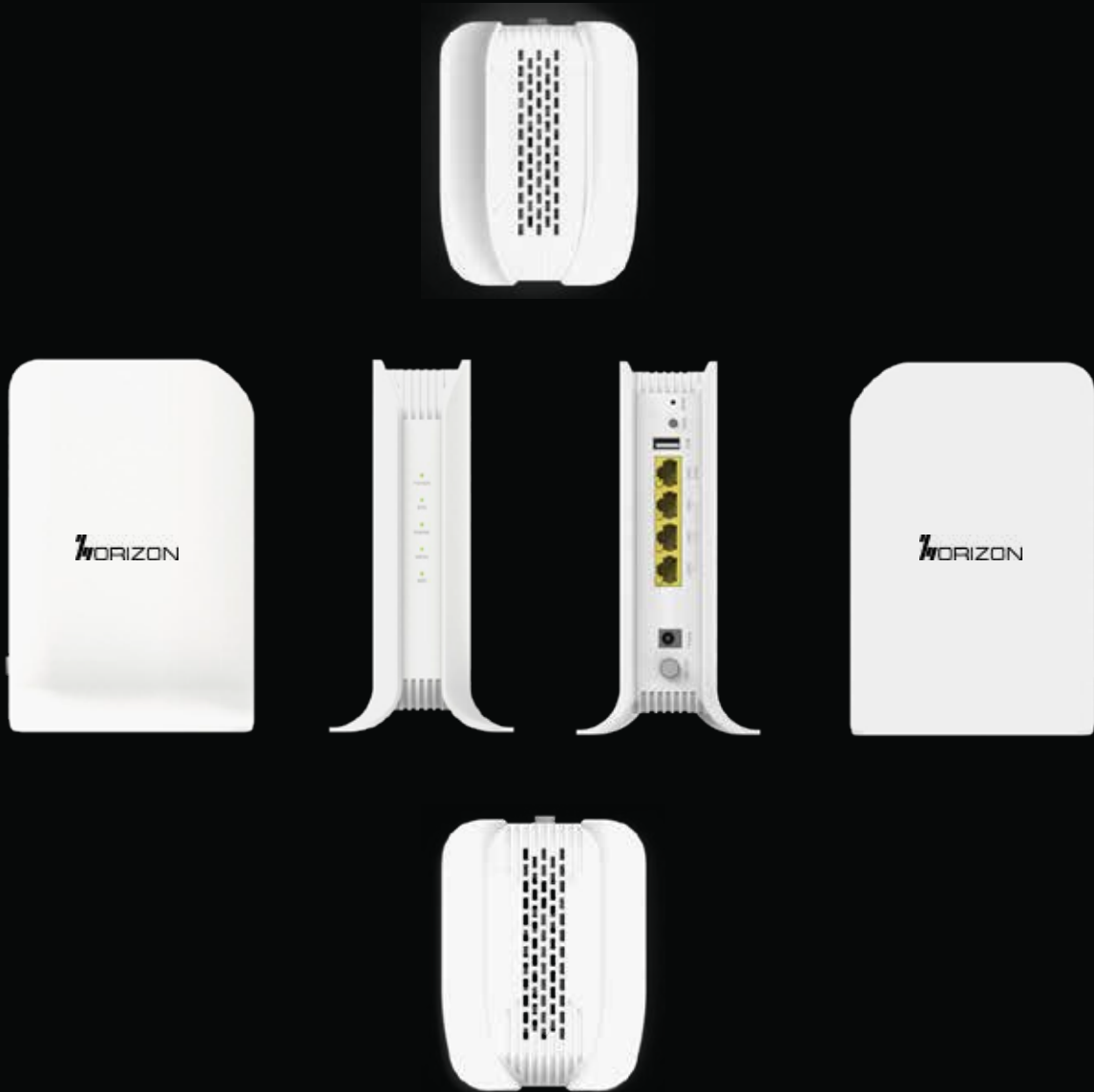
System Reboot and Factory Reset
Automated (Scheduled) Reboot
Network Time Protocol (NTP) Configuration
Import and Export Configuration Settings
System Diagnostics and Monitoring

# Networking of Applications



# Product Views

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## Change History

Version	Date	Description
V1.0.0	Feb 2025	Initial release (Preliminary version)



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