



# DATA SHEET

# WIRELESS

## Standards and Protocols

- Wi-Fi 6
- IEEE 802.11ax/ac/n/a (5 GHz)
- IEEE 802.11ax/n/b/g (2.4 GHz)

## WiFi Speeds (AX3000)

- 5 GHz: 2402 Mbps (802.11ax, HE160)
- 2.4 GHz: 574 Mbps (802.11ax)

## WiFi Range

- 2–3 Bedroom Houses
- 4× Fixed High-Performance Antennas  
Multiple antennas form a signal-boosting array to cover more directions and large areas

## Wireless Technologies

- **Beamforming**  
Concentrates wireless signal strength towards clients to expand WiFi range
- **High-Power FEM**  
Improves transmission power to strengthen signal coverage

## WiFi Capacity

- High
- Dual-Band  
Allocate devices to different bands for optimal performance
- OFDMA  
Simultaneously communicates with multiple Wi-Fi 6 clients
- Airtime Fairness  
Improves network efficiency by limiting excessive occupation
- DFS  
Access an extra band to reduce congestion
- 4 Streams  
Connect your devices to more bandwidth

## Working Modes

- Router Mode
  - Access Point Mode
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# SECURITY

## Network Security

- SPI Firewall
- Access Control
- IP & MAC Binding
- Application Layer Gateway

## HomeShield Security

- Real-Time IoT Protection
- Malicious Site Blocker
- Intrusion Prevention System
- DDoS Attack Prevention
- Home Network Scanner

## Guest Network

- 1× 5 GHz Guest Network
- 1× 2.4 GHz Guest Network

## VPN Server

- OpenVPN Server
- PPTP VPN Server
- WireGuard VPN Server

## WiFi Encryption

- WPA
  - WPA2
  - WPA3
  - WPA/WPA2-Enterprise
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# HARDWARE

## Ethernet Ports

- 1× Gigabit WAN Port
- 4× Gigabit LAN Ports

## Buttons

- Wi-Fi/WPS Button

- Power On/Off Button
- Reset Button

## Power

- 12 V = 1 A (Except for US Version)
  - 12 V = 1.5 A (US Version)
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# SOFTWARE

## Protocols

- IPv4
- IPv6

## Service Kits

- HomeShield

## EasyMesh

Mesh networking creates smooth, fast, stable roaming. Archer AX57 can flexibly build an EasyMesh network with EasyMesh-Compatible devices, which eliminates Wi-Fi dead zones, expands your network, and fills your entire home with high-speed Wi-Fi. Seamless Wi-Fi connections with one network name, one-click setting, and flexible scalability.

## Parental Controls (HomeShield)

- Custom Profiles
- Professional Content Filter Library
- Family Time
- Bedtime
- Off Time
- Time Rewards
- Family Online Time Ranking
- Pause the Internet
- Weekly and Monthly Reports

## WAN Types

- Dynamic IP
- Static IP
- PPPoE
- PPTP
- L2TP

## **Quality of Service**

- QoS by Device

## **Cloud Service**

- Auto Firmware Upgrade
- OTA Firmware Upgrade
- TP-Link ID
- DDNS

## **NAT Forwarding**

- Port Forwarding
- Port Triggering
- DMZ
- UPnP

## **IPTV**

- IGMP Proxy
- IGMP Snooping
- Bridge
- Tag VLAN

## **DHCP**

- Address Reservation
- DHCP Client List
- Server

## **DDNS**

- TP-Link
- NO-IP
- DynDNS

## **Management Features**

- Tether App
  - Webpage
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## **OTHER**

### **Network Services Enabled by Default**

## **Web Server**

Manage and configure device through web (HTTP/HTTPS)

- Port: 80 / 443
- Protocol: TCP

## **DNS**

- Port: 53
- Protocol: TCP & UDP

## **DHCP Server**

IP address assignment (DHCP)

- Port: 67
- Protocol: UDP

## **App Management**

Manage and configure device through app

- Port: 20001 – Protocol: TCP
- Port: 30001 – Protocol: TCP
- Port: 20002 – Protocol: UDP

## **System Requirements**

- Internet Explorer 11+, Firefox 12.0+, Chrome 20.0+, Safari 4.0+, or other JavaScript-enabled browser
- Cable or DSL Modem (if needed)
- Subscription with an internet service provider (for internet access)

## **Certifications**

- CE
- RoHS

## **Environment**

- Operating Temperature: 0°C ~ 40°C (32°F ~ 104°F)
- Operating Humidity: 10% ~ 90% non-condensing

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# **TEST DATA**

## **WiFi Transmission Power (CE)**

- <20 dBm (2.4 GHz)

- <23 dBm (5.15 GHz ~ 5.35 GHz)
- <30 dBm (5.47 GHz ~ 5.725 GHz)

## WiFi Reception Sensitivity

### 2.4 GHz

- 11ac VHT20\_MCS0: -96 dBm
- 11ac VHT20\_MCS8: -74 dB
- 11ac VHT40\_MCS0: -94 dBm
- 11ac VHT40\_MCS9: -70 dB
- 11ax HE20\_MCS0: -96 dBm
- 11ax HE20\_MCS11: -66 dBm
- 11ax HE40\_MCS0: -93 dBm
- 11ax HE40\_MCS11: -63 dBm

### 5 GHz

- 11ac VHT20\_MCS0: -97 dBm
- 11ac VHT20\_MCS8: -75 dBm
- 11ac VHT40\_MCS0: -94 dBm
- 11ac VHT40\_MCS9: -70 dBm
- 11ac VHT80\_MCS0: -91 dBm
- 11ac VHT80\_MCS9: -67 dBm
- 11ac VHT160\_MCS0: -88 dBm
- 11ac VHT160\_MCS9: -63 dBm
- 11ax HE20\_MCS0: -97 dBm
- 11ax HE20\_MCS11: -66 dBm
- 11ax HE40\_MCS0: -94 dBm
- 11ax HE40\_MCS11: -63 dBm
- 11ax HE80\_MCS0: -91 dBm
- 11ax HE80\_MCS11: -61 dBm
- 11ax HE160\_MCS0: -87 dBm
- 11ax HE160\_MCS11: -58 dBm

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## PHYSICAL

### Dimensions (W × D × H)

- 10.2 × 5.3 × 1.6 in
- (260.2 × 135 × 41.6 mm)

### Package Content

- Wireless Router Archer AX57
- Power Adapter

- RJ45 Ethernet Cable
- Quick Installation Guide