

# Gigabit Wireless Router with 4x4 802.11ac

## Ultra-fast GigE Router with the Ultimate Wireless Performance

With Actiontec's latest ultra-fast, ultra-powerful GigE wireless router, you can deliver the superior performance and applications that your customers crave. With blazing fast GigE WAN and LAN, dual-core 32-bit processor, dual-band dual-concurrent 2.4 GHz 802.11n and 5 GHz 802.11ac Wi-Fi, and capacious amounts of memory (128 MB Flash and SDRAM), the F2300 can support home networking at speeds up to 1 Gbps over Ethernet and up to 1.3 Gbps\* over Wi-Fi. Packed with superior routing and networking capabilities and industry leading specs, this wireless router is pure power for a digital TV, Internet, and home automation experience unlike any other.

Consumers demand more from their wireless networks today. That's why the F2300 is one of the few gateway routers to support concurrent 2x2 operation on the 2.4 GHz band and 4x4 operation in the 5 GHz frequency band. F2300 uses Digital Transmit Beamforming technology to increase radio gain and reduce signal loss. This means the F2300 is capable of delivering more bandwidth, with better range to reach the far corners of the home to alleviate network congestion as more and more consumer devices vie for a wireless connection in the home.

## Key Features

- Gigabit Ethernet LAN/WAN
- Dual-Band, Dual-Concurrent WiFi with 4x4 802.11ac in 5 GHz



Model# F2300

\* Maximum theoretical combined PHY rate of 1.3 Gbps, based on 1.0 Gbps 802.11ac (5GHz, 80MHz) plus 300 Mbps 802.11n (2.4GHz, 40MHz) with SGI and 256 QAM

## Specifications

### Wireless

- Dual-Band Concurrent 2.4GHz and 5GHz 802.11 a/b/g/n/ac
- IEEE 802.11ac Compliant
- IEEE 802.11a/b/g/n Legacy Compatibility with Enhanced Performance
- Greenfield, Mixed Mode, and Legacy Modes Supported
- 2.4GHz Two-stream MIMO up to 300 Mbps (11n) PHY Rate with 256 QAM
- 5GHz Four-stream MIMO up to 1.0 Gbps PHY Rate in 80 MHz with SGI
- Supports 20, 40 and 80 MHz Channels (11 ac)
- Digital Transmit Beamforming: Explicit and Blind (Implicit)
- Support for STBC and LDPC, in both TX and RX for Increased Wireless Coverage
- 8 SSIDs (4 SSIDs per radio)
- 2x2 external antennas 2.4 GHz
- 4x4 external antennas 5 GHz
- Wi-Fi Multimedia (WMM), WMM Power Save (WMM-PS)
- 802.11e Power Saving Mode
- Automatic Power Control
- Dynamic TX Power Saving Mode
- Video Stream Protection

### Wireless Security

- Wi-Fi Protected Access (WPA, WPA2)
- Wi-Fi Protected Setup (WPS)
  - WPS Push Button
  - WPS PIN
- MAC Address Filtering

### Advanced Security

- Firewall
- Stateful Packet Inspection
- Website Blocking
- Web Service Blocking
- URL Keyword-Based Filtering
- Customizable Filtering Policies per Computer
- Denial of Service (DOS) Protection
- Demilitarized Zone (DMZ)
- Intrusion Detection
- NAT
- IP Protocol Filtering

### QoS Support

- Diffserv
- 802.1p/q Prioritization
- Configurable Upstream/Downstream Traffic Shaping
- Pass-through of WAN-side DSCPs, PHBs & Queing to LAN-side Devices
- Prioritization via DHCP Options

### IPv6

- IPv4/v6 Dual Stack
- DHCPv6 with PD on WAN
- Stateful or Stateless (SLAAC) on LAN

### Wireless Operating Channels

- 20 and 40 MHz Supported
- 80 MHz Supported in 5GHz only

### Advanced Features

- DHCP Server Option
- DHCP Server/PPPoE Server Auto Detection
- DNS Server
- Fast Path Packet Acceleration (Hardware and Software)
- Full Bridge Device Control
- LAN IP & WAN IP Address Selection
- MAC Address Cloning
- Port Forwarding, Port Triggering
- IGMP v1, v2, v3
- IGMP proxy and snooping
- MAC Address Filtering
- Automatic Channel Selection (ACS) During Boot-up
- Static Routing/Static NAT
- Self-Heal Diagnostics

### Quality of Service and Traffic Management

- Supports IGMP v3 Snooping
- Supports IEEE 802.1p (Diff-Serv)
- Supports IEEE 802.1q VLANs

### Device Management

- Password-protected access
- Statistics logging and reporting
- Remote Management: TR-069, TR-098, TR-111, TR-181
- Local Management: WebUI, CLI (Telnet)

### LAN Interfaces

- Four 10/100/1000 BaseT 802.3ab Ethernet LAN
- Two USB 2.0

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- Maximum wireless signal rate derived from IEEE Standard 802.11g, 802.11n and 802.11ac specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction and network overhead lower actual data throughput rate. Environmental factors will adversely affect wireless signal range.
- Actiontec makes no express or implied representations or warranties about this product's compatibility with any future standards.
- Product photo may differ from actual product, however functionality remains as stated above.
- Specifications are subject to change without notice.

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