WF-825

OpenSync™ Tri-Band Wi-Fi 7 Desktop Router

Overview

The Actiontec WF-825 is a tri-band Wi-Fi 7 (802.11be) desktop router purpose-built for demanding residential and small-business broadband deployments. With high-capacity 4×4 radios across 2.4 GHz, 5 GHz, and 6 GHz bands, the WF-825 delivers the performance needed to support multiple simultaneous 4K/8K streams, cloud gaming, video conferencing, smart-home devices, and remote work applications.

For operators, the WF-825 helps maximize the value of multi-gigabit broadband services while improving the subscriber experience. Its 10 GbE WAN port supports next-generation fiber and high-speed broadband tiers, while three 2.5 GbE LAN ports provide flexible, future-ready wired connectivity for today's connected homes and small offices.

Managed through the Optim™ Cloud platform, the WF-825 gives operators greater visibility, control, and support efficiency across the subscriber network. Integrated EasyMesh R4 support enables seamless whole-home coverage through a self-optimizing, standards-based mesh Wi-Fi system—helping reduce installation complexity, minimize support calls, and improve customer satisfaction.

Key Features

- **Wi-Fi 7 (802.11be) tri-band —** 2.4/5/6 GHz simultaneous
- **4×4 MIMO on all three bands** for maximum throughput
- **6 GHz up to 320 MHz channels** + Multi-Link Operation (MLO)
- **3× 2.5 GbE LAN ports** + 1× 10 GbE LAN for wired backbone
- **WPA/WPA2/WPA3 PSK** enterprise-grade Wi-Fi security
- **USB 3.0 port** for storage or printer sharing
- **10 GbE WAN port —** ready for multi-gig fiber broadband
- **Optim™ Cloud management —** zero-touch provisioning
- **Qualcomm SoC —** 4 GB eMMC Flash + 1 GB DDR4
- **Desktop form factor —** compact 202×85×235 mm footprint

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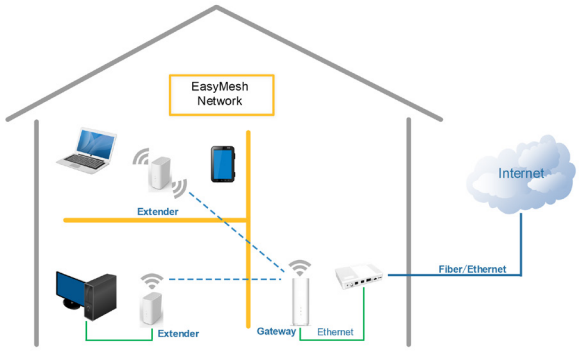
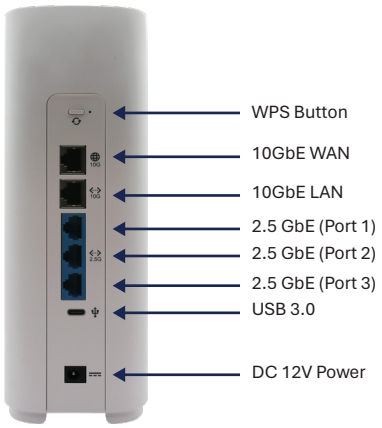
Configuration Scenario



Back Panel Connections



Features

CATEGORY	FEATURES
Network	**Router Mode:** IPv4/IPv6, NAT, DHCP, DNS, UPnP, Port Forwarding
	Mesh Mode: EasyMesh R4 — 1 Gateway + up to N Extenders
	Multicast: IGMP Snooping/Proxy (IPTV/VoD optimization)
Wi-Fi	**Bands:** 2.4G 4×4 20/40 MHz • 5G 4×4 20–160 MHz • 6G 4×4 20–320 MHz **Security:** WPA/WPA2/WPA3 PSK; integrated antennas **Features:** Band Steering, MU-MIMO, OFDMA, MLO, DFS
Cloud	**Optim™ Cloud:** Zero-touch provisioning, AI optimization, remote management
	App Controls: Network config, client management, firmware OTA
LEDs	**3× Status LEDs:** Front panel — indicate system, WAN, and Wi-Fi status **WPS LED:** Indicates WPS pairing activity

Hardware Specifications

ITEM	SPECIFICATION
Dimensions	202 mm × 85 mm × 235 mm; Desktop form factor
SoC	Qualcomm Wi-Fi 7 platform
Memory	4 GB eMMC Flash + 1 GB DDR4
Ethernet	1× 10 GbE WAN + 1× 10 GbE LAN + 3× 2.5 GbE LAN
USB	1× USB 3.0
Power	+12 V / 5 A DC adapter; <56 W max
IP Rating	IP20
Operating Temp	0°C to +40°C
Humidity	5%–95% RH, non-condensing
MTBF	>300,000 hours
Regulatory	IEC 62368-1, UL, ETL, FCC, RoHS 2011/65/EU

Model Information

MODEL #	DESCRIPTION	SOFTWARE
WF-825	Tri-Band Wi-Fi 7 Desktop Router, Optim™ Cloud, EasyMesh R4, 10GbE WAN, 10GbE LAN, 3×2.5GbE LAN, USB 3.0	Optim™ / Easy Mesh

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DECLARATION OF CONFORMITY

Per FCC Part 2 Section 2. 1077(a)

The following equipment:
Product Name: Tri-band Wi-Fi 7 Wireless AP
Trade Name: Actiontec
Model Number: GRBE330C, WF-825

It's herewith confirmed to comply with the requirements of FCC Part 15 Rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.
Measurements were performed at MRT Technology (Suzhou) Co., Ltd located in D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China . MRT Technology (Suzhou) Co., Ltd facility is an FCC registered (Reg. No. CN1166) test facility with the site description report on file and is designated by the FCC as an Accredited Test Film. (Report No.: 2403ESU045-U1)
It is understood that each unit marketed is identical to the device as tested, and any changes to the device that could adversely affect the emission characteristics will require retest.
The following importer / manufacturer is responsible for this declaration:
Company Name: Actiontec Electronics Inc.
Company Address: 2445 Augustine Drive Suite 501, Santa Clara, California 95054, United States

Person is responsible for marking this declaration:

Liu Zhe	Product Manager
Name (Full name)	Position / Title:
Jun 30, 2026	zhe Liu
Date	Legal Signature: