BE5100 Outdoor WiFi 7 Router Specification Sheet

WiFi 7 (802.11be) | IP67 Weatherproof | 4KV Lightning Protection | Up to 1000m Coverage

Product Overview

The WAVLINK BE5100 is an enterprise-grade outdoor WiFi 7 router engineered for demanding deployments where standard indoor equipment cannot perform. With full IP67 weatherproofing, 4KV lightning protection, and 15KV ESD protection, it delivers stable dual-band wireless connectivity across large outdoor areas including farms, construction sites, industrial facilities, and outdoor venues. Powered by the 802.11be (WiFi 7) standard, it achieves combined speeds up to 5100 Mbps with a tested outdoor range of up to 1000 metres.

Technical Specifications

Wireless

WiFi Standard	IEEE 802.11be/ax/ac/a/n/g/b (WiFi 7)
Frequency Bands	2.4 GHz and 5 GHz (Dual Band)
Max Speed	5100 Mbps combined (2.4G: 688 Mbps / 5G: 4323 Mbps)
Transmit Power	2.4G: 27 dBm Max | 5G: 27 dBm Max
Sensitivity	-95 dBm
Antennas	2 x 2.4G 8dBi + 2 x 5G 8dBi + 1 x 5G 5dBi Omni-Directional
Coverage Range	Up to 1000m outdoors (environment dependent)
Security	WPA3-SAE, WPA2-PSK, WPA-PSK/WPA2-PSK-MIX

Connectivity

WAN/LAN Port	1 x 2.5G WAN/LAN
Operation Modes	Mesh Router, Mesh AP, Mesh Extender, AP, Repeater
Compatibility	Starlink compatible
Button	1 x PAIR and Reset
LED Indicator	1 x SYS

Power

AC Input	100-240V AC, 50/60 Hz
Passive PoE	DC 54V / 0.6A
Active PoE	DC 48V (802.3at/af compliant)

Protection and Environmental

Weatherproof Rating	IP67 (dust-tight, immersion protected)
Lightning Protection	4KV
ESD Protection	15KV