samsung WEA524i

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Overview

The Samsung WEA524i is an 802.11ac Wave2 indoor Wi-Fi access point (AP) that delivers high throughput, with data rates of up to 1.7 Gbps on a 5-GHz band. With dual concurrent radio, 4x Multi-

User MIMO, and Dynamic Frequency Selection (DFS) capabilities, the WEA524i AP enables high-performance wireless connectivity in high-density environments. The combination of 802.11ac standards and Samsung's innovative smart antenna solution, patented traffic schedule technology, and in-built security modules makes the WEA524i AP an ideal wireless solution for enterprises. Its seamless roaming capabilities without any packet loss ensures a continuous reliable mobile IP communication experience to improve employee productivity.

The WEA524i's 4x4 MIMO enables enterprises to transfer more concurrent data at higher speeds. This solves any network bottlenecks or hindrances to day-to-day productivity using both voice and data applications – an extremely essential feature, as Wi-Fi is becoming the primary connectivity node for a growing number of devices in the enterprise.

Enterprise-grade embedded security features are another crucial requirement for today's organizations. The Samsung WEA524i supports the WPA1/WPA2, TKIP, and AES security protocols to provide much-needed protection to enterprises.

The Samsung WEA524i's compact form factor and light weight design make it easy to install and mount.

Simplified Management

WEA524i access points can either be managed via a Command Line Interface (CLI) or centrally managed via a web interface by using high-performance controllers that are optimally designed to support both small and midscale enterprise deployment (WEC 8050) as well as large-scale deployments (WEC 8500).

In addition, the complementary Samsung Wireless Enterprise Manager (WEM) provides operational convenience by enabling system administrators to monitor failure situations anywhere, at any time and to quickly resolve them via integrated wired/wireless remote management using their smartphones.

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Key Features

- Optimum Performance Minimizes dead zones to deliver great coverage and throughput in concurrent multi-device traffic environments
- Embedded Security Embedded comprehensive security protocols to offer optimum security to enterprises
- Reliable Enterprise Connectivity Seamless roaming without packet loss - an essential characteristic for enterprises today, as more and more are using Wi-Fi as their primary form of connectivity
- More Data and Higher Speeds 4x4 MIMO for higher data transfers at faster speeds in environments with concurrent devices and traffic

SAMSUNG



WEA524i

Key Enabling Technologies



Intelligent Beam Selectable Antenna (IBSA)™

Expands service coverage and increases receiving sensitivity to ensure higher performance



Airequalizer

Guarantees airtime fairness to every device in crowded environments



Self-Organizing Network (SON)

Self-optimizes Wi-Fi connectivity and cell configurations to adapt to network conditions and manage overburdened networks



Voice Aware Traffic Scheduling (VaTS)¹

Ensures optimized routing and QoS of real-time communication traffic as well as crystal-clear real-time voice collaboration over Wi-Fi





WEA524i

Key Specifications



Item	Spec							
Radio Specifications	802.11a/b/g/n/ac Dual concurrent radio 4 × 4 MIMO, 4 spatial streams, 4 Multiuser MIMO PHY data rates up to 1.7 Gbps (5 GHz) 802.11n high throughput (HT20/40) 802.11ac very high throughput (VHT20/40/80/80+80/160) Dynamic frequency selection (DFS)							
Operation Mode	Controller-based Mode: Central / Local Switching wit WEC8500 Series Standalone Mode (requires additional software) Time Slicing Sniffer Mode Time Slicing WIDS Mode: Monitor, Detection, Alert/Save, GUI Presentation							
Supported Wireless LAN Controller	WEC8500 Series / WEC8050 Series							
Data Rates	802.11b: 1, 2, 5.5 and 11 Mbps 802.11a: 6, 9, 12, 18, 24, 36, 48 and 54 Mbps 802.11g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps 802.11n: MCS 0 to MCS 31 (6.5 Mbps to 600 Mbps) 802.11ac: MCS 0 to MCS 9 (6.5 Mbps to 1,733 Mbps)							
Frequency	802.11b/g/n: 2.412 GHz to 2.472 GHz 13 CH 802.11a/n/ac: 5.180 GHz to 5.825 GHz 25 CH * Available Channels are compliant with local regulations							
Maximum Transit Power	26 dBm with 4 streams (20 dBm/Path) * The maximum transmit power will vary by channel and according to individual country regulations (2.4 GHz MCS 0/Path)							
Receive Sensitivity	Rate MCS 0 MCS 7 MCS 8 MCS 15 MCS 16 MCS 23 MCS 24 MCS 23 MCS 24 MCS 31 MCS0/NSS1 MCS7/NSS1 MCS9/NSS1 MCS9/NSS1 MCS9/NSS2 MCS9/NSS2 MCS9/NSS2 MCS9/NSS3 MCS9/NSS3 MCS9/NSS3 MCS9/NSS3 MCS9/NSS4 MCS7/NSS4 MCS7/NSS4 MCS9/NSS4 1 Mbps 1 Mbps 6 Mbps 5 4 Mbps	2G HT20 -94 -75 -92 -72 -90 -70 -87 -68	HT20 -93 -73 -91 -71 -89 -69 -87 -68		-93 -73 -99 N/A -91 -71 -67 N/A -89 -65 -63 -87 -68 -64 -62	-90 -71 -67 -65 -88 -68 -63 -65 -63 -61 -59	-87 -69 -65 -63 -85 -67 -64 -60 -82 -65 -61 -58 -62 -58 -56	
Maximum Receive Sensitivity	- 93 dBm (5 GHz N	MCS 0/P	ath), - 9	4 dBm (2.4 GHz MC	S 0/Pat	h)	
Security	• Secure boot and data store with Embedded Secure Element • IEEE 802.11i, WPA™/ WPAZ™, Enterprise/Personal, TKIP, AES • 802.1x/EAP based Controller internal / external Radius, LDAP, Active Directory • CAPWAP							
Integrated Antenna	2.4 GHz: 3 dBi; 5 GHz: 5 dBi							

WEA524i

Key Specifications



Interfaces	Two 10/100/1000BASE-T Ethernet port: RJ-45, Link Aggregation One PoE-PD port: 802.3af/at One Management console port (RJ-45) USB 2.0 Type A connector				
Dimensions	Diameter × Height: 203 mm × 45 mm (excluding protrusions)				
Weight	1.36 lbs (+5%)				
Environmental	Storage temp: -13 to 158°F; Operating temp: 32 to 113°F; Operating Humidity: 0 to 90% (non-condensing)				
Input Power Requirements	IEEE 802.3af/at PoE - 802.3at: Full Capability				
Powering Options	Local power supply: 48 V / 0.75 A				
Power Draw	Under 20 W				
LED	System start status, Provisioning status, Operation status, Fault status				
Reset button	Factory Reset				
Lock Option	Kensington Lock Slot				
Mounting	Included Mounting Bracket for Ceiling installation				
Mounting Compliance Standards	Safety: - KN 60950-1 (Korea) - UL 60950-1 (Europe) - EN 60950-1 (Europe) - EN 60950-1 (USA) • EMC: - KN 301 489-1/KN 301 489-17, KN 32, KN 24 (Korea) - EN 301 489-1/FN 301 489-17, EN 55032, EN 55024 (Europe) - FCC Part 15 Subpart B (USA) • Radio approvals: - Radio Equipment Specifications (Korea) - EN 300 328, EN 301 893, EN 300 440, EN 62311 (Europe) - FCC Part 15 Subpart C, Subpart E (USA) • Wi-Fi Alliance Certified: - Wi-Fi CERTIFIED™ a, b, g, n, ac - WPA™ — Enterprise, Personal - WPA2™ — Enterprise, Personal - EAP-TLS - EAP-AKA - EAP-BOUT - EAR-AKA - EAP-AKA - EAP-AKA - EAP-AKA - EAP-AKA - EAP-AKA - EAP-AKA - EAP-BOUT - EAR-AKA - EAP-AKA - EAP-BOUT - EAR-AKA - EAP-AKA				

WEA524i Integrated

Antenna

Key Specifications



Item	Spec
Frequencies [MHz]	2,400-2,495/4,900-5,925
Configuration	4 of 2.4GHz, 4 of 5GHz
Gain [dBi]	3 @2.4GHz/ 5.5 @5GHz
VSWR (max)	2 @2.4GHz/ 2 @5GHz
Polarization	Linear
Antenna Type	Omni-directional
Mounting	Integrated

Radiation Patterns



