



**SAMSUNG**

# Smart Wi-Fi Solution

Raising Standards in K-12 Education

## OVERVIEW

Choosing for the right technology to enable students to make the most of their personalized learning can be a daunting task, especially under limited budgets. Providing connectivity to multiple users in focused areas such as classrooms, auditoriums or libraries has become a key requirement when building a robust connected learning environment.

With Samsung, you can rest assured your school will experience enterprise-grade Wi-Fi connectivity with the quality and reliability that helps empower teachers and inspire students. **Samsung Wireless LAN Solution** brings highly optimized Wi-Fi connectivity to deliver:

- The support you need for flipped-classrooms and schools implementing one-to-one computing initiatives
- Simple and centralized management
- A consistent classroom experience and library efficiency
- Robust Wi-Fi for multimedia content streaming and other learning applications
- Cost-efficient and high performance Wireless LAN infrastructure

Enable students and teachers to work better, faster, smarter.

Ask your Samsung Authorized Partner about our Special Pricing for Schools\*.

\*Samsung APs are eligible products for E-rate participants. Limited time offer; subject to change. Offer may not be available in some areas.

## KEY FEATURES

### Smart Connectivity

Samsung WLAN uses Intelligent Beam Selectable Antenna (IBSA) technology to optimize radio frequency (RF) patterns, delivering more coverage and reducing interference regardless of the student's location within the network.

### Maximum Engagement

With Samsung's optimized airtime fairness through integrated AirEqualizer technology, total throughput is maximized to every device that is simultaneously connected to the network, enhancing every student's learning experience. Additionally, Samsung WLAN's centralized management and its Self-Organizing Network (SON) technology makes it easy to configure, maintain and troubleshoot issues.

### Inspiring Limitless Possibilities

Similarly, Samsung AirMove uses LTE technology that allows the controller to determine the best timing and target AP for handover. This way, students and teachers can enjoy seamless Wi-Fi on-the-go services while video streaming or using other learning applications.

# Samsung Wireless LAN Solution for K-12 Education



## Access Points

### WEA400 Series

The Samsung WEA400 series support 802.11ac, the next generation of Wi-Fi, offering higher throughput, more capacity and less interference, while providing an easy and reliable management infrastructure. The WEA400 series are dual concurrent radio products, each radio capable of running in either 2.4 or 5GHz band.

### WEA300 Series

The Samsung WEA300 series are compact and powerful access points with multiple spatial streams 802.11 a/b/g/n that deliver data rates of 300/450 Mbps and ensure ultimate coverage, easy management and a secure wireless network.

		WEA412i	WEA403i	WEA302i	WEA303i / WEA303e
Wireless	Standard	802.11a/b/g/n/ac	802.11a/b/g/n/ac	802.11a/b/g/n	802.11a/b/g/n
	# of radio	Dual Concurrent Radio	Dual Concurrent Radio	Dual Concurrent Radio	Dual Concurrent Radio
	Frequency	2.4 GHz, 5 GHz	2.4 GHz, 5 GHz	2.4 GHz, 5 GHz	2.4 GHz, 5 GHz
	Antennas	Internal Type	Internal Type	Internal Type	Internal & External Type
	MiMO	2 x 2 MiMO, 2 Spatial Streams	3 x 3 MiMO, 3 Spatial Streams	2 x 2 MiMO, 2 Spatial Streams	3 x 3 MiMO, 3 Spatial Streams
	PHY Rate	867 Mbps	1.3 Gbps	300 Mbps	450 Mbps
Hardware	Network I/F	2 GE (RJ45), 1 Console (RJ45)	2 GE (RJ45), 1 Console (RJ45)	1 GE (RJ45), 1 Console (RJ45)	1 GE (RJ45), 1 Console (RJ45)
	PoE	802.3af/802.3at	802.3at	802.3af/802.3at	802.3af/802.3at
	Environmental Class	Indoor	Indoor	Indoor	Indoor/Outdoor
Dimension	Diameter / Height	205 mm / 45 mm	205 mm / 45 mm	174 mm / 34.1 mm	174 mm / 34.1 mm
	Weight	820 g	920g	560g	640g
Security	Standard	802.11i, WPA/WPA2	802.11i, WPA/WPA2	802.11i, WPA/WPA2	802.11i, WPA/WPA2
	Multi SSID	Maximum 16	Maximum 16	Maximum 16	Maximum 16
	# of Multi VLAN over SSID	Maximum 1,024	Maximum 1,024	Maximum 1,024	Maximum 1,024
	Encryption	DTLS	DTLS	DTLS	DTLS
QoS	Standard	802.11e	802.11e	802.11e	802.11e
	WMM	Yes	Yes	Yes	Yes
Management	Operation	Controller-based	Controller-based	Controller-based	Controller-based
Certification	WiFi Certified	WPA/WPA2, WMM, WMM-PS	WPA/WPA2, WMM, WMM-PS	WPA/WPA2, WMM, WMM-PS	WPA/WPA2, WMM, WMM-PS
	KC	Yes	Yes	Yes	Yes

## WLAN Controller



### WEC8500 Enterprise WLAN Controller

The Samsung WEC 8500 is specially designed for mission-critical wireless networking in mid-sized to large organizations. This high performing controller is able to simultaneously manage up to 500 access points, 10,000 client devices with 20Gbps data plane, offering a fast and reliable network.



### WEC8050 SMB Controller

Designed with small to medium sized schools in mind, the WEC 8050 can manage up to 75 access points and 1,500 client devices simultaneously and ensures the same enterprise, cutting-edge functionality as the WEC8500 model.

For more information visit us at [www.samsung.com/us/wlan-K12-schools](http://www.samsung.com/us/wlan-K12-schools)  
or e-mail us at [we.info@samsung.com](mailto:we.info@samsung.com).