

DIGISOL[®]

WIRELESS SOLUTIONS

DIGISOL Wi-Fi 6 11ax 3000Mbps PoE Indoor Ceiling Mount Wireless Access Point

DG-WM835AX

Key Features:-

- Upto 3000Mbps aggregate speed
- Support Wi-Fi 6 802.11ax Standard
- 1 x Gigabit LAN Port
- 1x Uplink PoE LAN/WAN Port
- Multimode : AP / Gateway
- Target Wake Up time (TWT)
- Support FIT / FAT Mode
- MU-MIMO and OFDMA



Introduction:-

DIGISOL DG-WM835AX is a high-performance Indoor ceiling mount wireless access point designed to meet the latest Wi-Fi 6 (11ax) standards. It delivers a combined 3000Mbps Wi-Fi speed over dual-band radios: 2.4GHz (600Mbps, 2x2) and 5GHz (2400Mbps, 2x2). Equipped with Gigabit WAN & LAN ports, it ensures fast and stable wired connections alongside its advanced wireless capabilities.

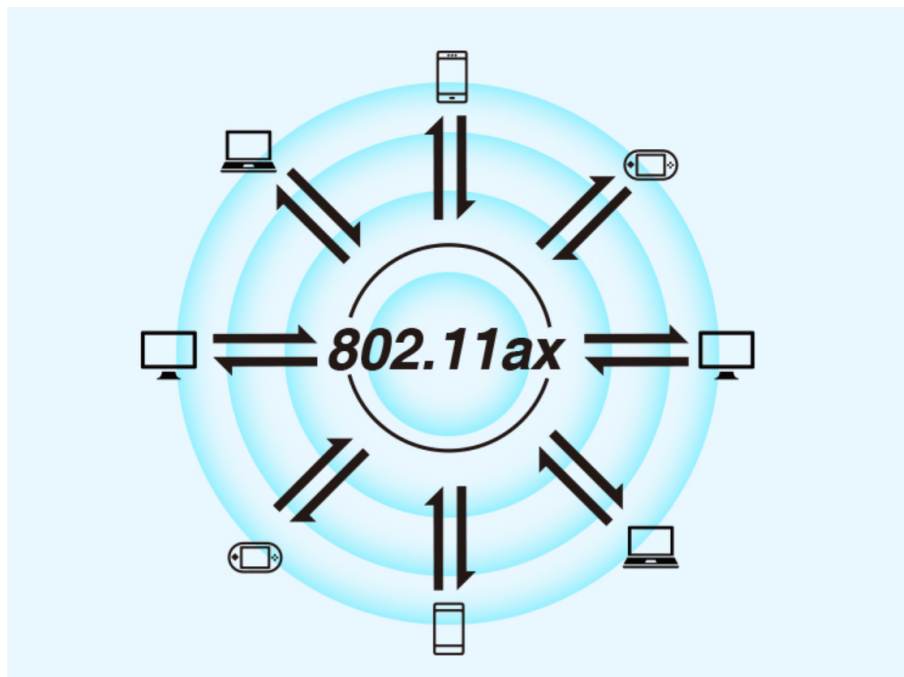
Supporting MU-MIMO, Wave 2.0, and DL/UL-OFDMA, the DG-WM835AX allows multiple users to simultaneously upload or download data packets, optimizing efficiency and reducing latency. The narrower subcarrier spacing and longer symbol time enhance network stability and data processing performance, making it ideal for high-density environments such as university campuses, concert venues, and gymnasiums. Additionally, seamless roaming ensures uninterrupted connectivity as users move between access points, providing a superior wireless experience in large-scale deployments.

Product Features:

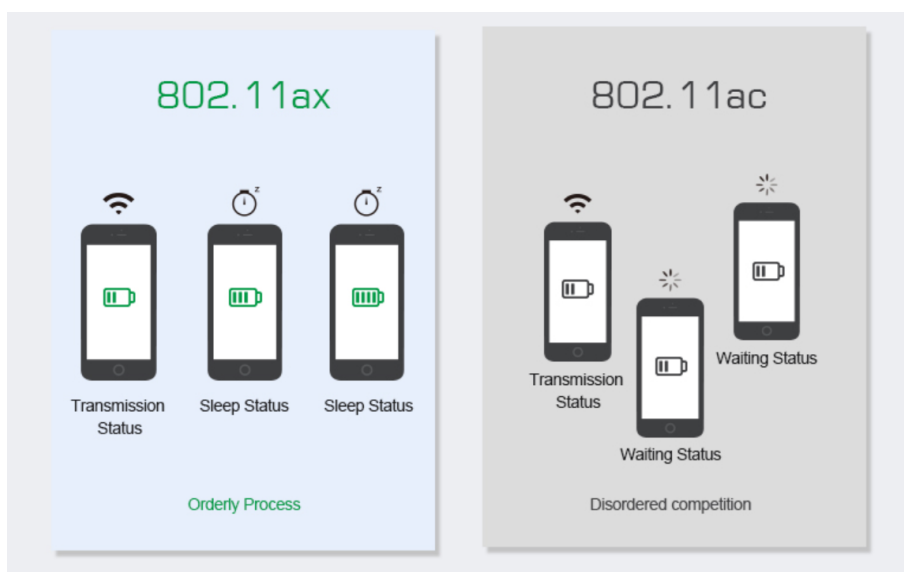
The DG-WM835AX is a high-performance Wi-Fi 6 access point that supports wireless speeds of up to 3Gbps. It features 1024QAM, long OFDM symbol, 160MHz bandwidth, and 2x2 MIMO technology, ensuring fast and stable connections. Designed for high-speed applications like VR, AR, and 4K/8K streaming, it provides seamless connectivity with low latency. Its advanced technology makes it ideal for environments that require reliable and high-capacity wireless networking.

802.11ax:	1024-QAM, Long OFDM Symbol, Max 160MHz bandwidth
802.11ac:	256-QAM

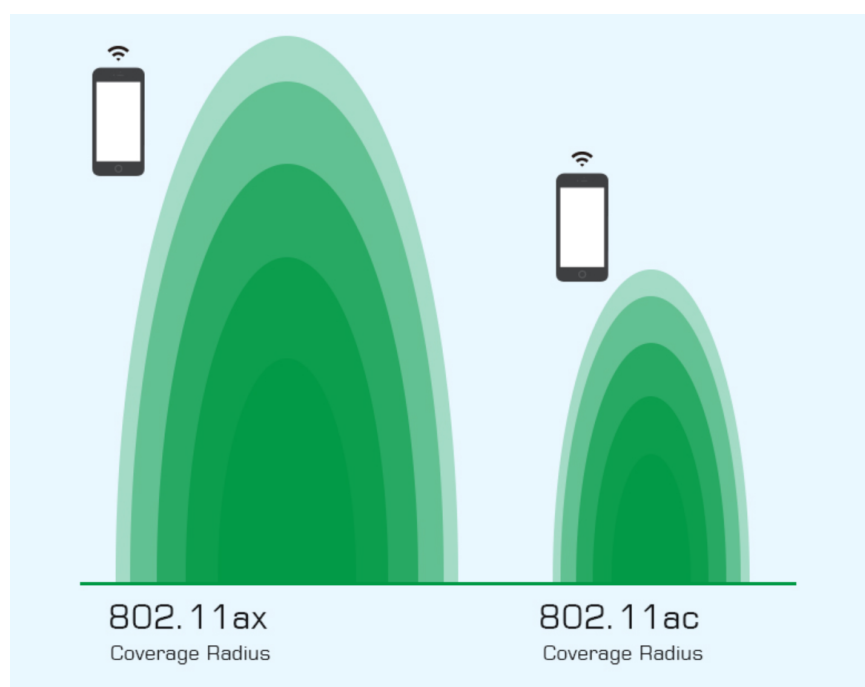
The DG-WM835AX supports downlink and uplink MU-MIMO, allowing it to communicate with multiple users simultaneously. This significantly enhances the uplink transmission rate, increases overall network capacity, and improves efficiency in multi-user environments. By reducing latency and optimizing data flow, it ensures smoother experience for high-demand applications, making it ideal for busy networks with multiple concurrent users.



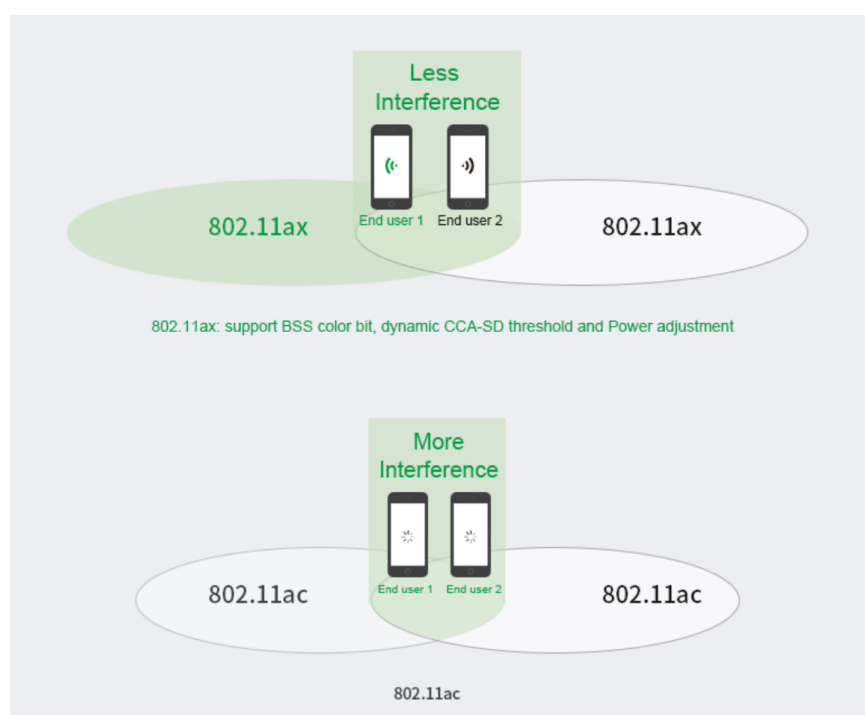
The DG-WM835AX supports Target Wake-up Time (TWT), a feature of 802.11ax that allows devices to schedule wake-up times for data transmission. This helps optimize power consumption by increasing sleep time and reducing competition for network resources after waking up. Additionally, the access point can group devices into different TWT cycles, further improving efficiency and extending battery life for connected devices.



The DG-WM835AX enhances Wi-Fi coverage with 802.11ax long OFDM symbol transmission and 2MHz narrowband transmission. These technologies help reduce packet loss and noise interference, improving signal reception and stability. As a result, the access point offers better coverage and reliability, ensuring a stronger and more consistent Wi-Fi connection across a wider area.



The DG-WM835AX enhances anti-interference capabilities with BSS coloring, dynamic CCA-SD (Clear Channel Assessment Signal Detection) threshold, and power adjustment. These features help reduce channel interference in multi-user environments and improve the efficient use of spectrum resources, ensuring more stable and reliable wireless performance.



Technical Specifications:-

HARDWARE SPECIFICATIONS					
Model	DG-WM835AX				
CPU	MT7981B+MT7976CN+7531AE				
Flash	SPI NOR 16MB				
DDR3	256M				
2.4G Antenna	2×2.4G, Gain : 4.6dBi				
5G Antenna	2×5G, Gain : 4dBi				
2.4G Frequency	2.4GHz ~ 2.484GHz				
5G WI-FI Protocol	802.11 b / g / n /ax				
5G Frequency	5.150GHz~5.850GHz				
5G WI-FI protocol	802.11 a / n / ac /ax				
Wireless data rate	2.4G : 574Mbps, 5G : 2402Mbps				
2.4G Power	802.11b	11 M	22 ± 2 dBm	1 M	22 ± 2 dBm
	802.11g	54 M	19 ± 2 dBm	6 M	21 ± 2 dBm
	802.11n HT 20	MCS 7	18 ± 2 dBm	MCS 0	20 ± 2 dBm
	802.11n HT 40	MCS 7	18 ± 2 dBm	MCS 0	20 ± 2 dBm
	802.11ax HT 20	MCS 11	16 ± 2 dBm	MCS 0	20 ± 2 dBm
	802.11ax HT 40	MCS 11	16 ± 2 dBm	MCS 0	20 ± 2 dBm
5G Power	802.11a	54 M	19 ± 2 dBm	6 M	21 ± 2 dBm
	802.11n HT 20	MCS 7	18 ± 2 dBm	MCS 0	20 ± 2 dBm
	802.11n HT 40	MCS 7	18 ± 2 dBm	MCS 0	20 ± 2 dBm
	802.11ac HT 20	MCS 7	17 ± 2 dBm	MCS 0	20 ± 2 dBm
	802.11ac HT 40	MCS 7	17 ± 2 dBm	MCS 0	20 ± 2 dBm
	802.11ac HT 80	MCS 9	17 ± 2 dBm	MCS 0	19 ± 2 dBm
	802.11ax HT 20	MCS 11	16 ± 2 dBm	MCS 0	20 ± 2 dBm
	802.11ax HT 40	MCS 11	16 ± 2 dBm	MCS 0	20 ± 2 dBm
	802.11ax HT 80	MCS 11	16 ± 2 dBm	MCS 0	19 ± 2 dBm
	802.11ax HT 160	MCS 11	14 ± 2 dBm	MCS 0	18 ± 2 dBm
2.4G Receive Sensitivity	802.11b	11 M	- 87 dBm	1 M	- 96 dBm
	802.11g	54 M	- 75 dBm	6 M	- 93 dBm
	802.11n HT 20	MCS 7	- 73 dBm	MCS 0	- 92 dBm
	802.11n HT 40	MCS 7	- 70 dBm	MCS 0	- 89 dBm
	802.11ax HT 20	MCS 11	- 64 dBm	MCS 0	- 92 dBm
	802.11ax HT 40	MCS 11	- 61 dBm	MCS 0	- 89 dBm
5G Receive Sensitivity	802.11a	54 M	- 74 dBm	6 M	- 92 dBm
	802.11n HT 20	MCS 7	- 73 dBm	MCS 0	- 90 dBm
	802.11n HT 40	MCS 7	- 70 dBm	MCS 0	- 87 dBm
	802.11ac HT 20	MCS 7	- 67 dBm	MCS 0	- 91 dBm
	802.11ac HT 40	MCS 7	- 63 dBm	MCS 0	- 88 dBm
	802.11ac HT 80	MCS 9	- 60 dBm	MCS 0	- 84 dBm
	802.11ax HT 20	MCS 11	- 62 dBm	MCS 0	- 91 dBm
	802.11ax HT 40	MCS 11	- 59 dBm	MCS 0	- 89 dBm

Technical Specifications:-

HARDWARE SPECIFICATIONS					
	802.11ax HT 80	MCS 11	- 56 dBm	MCS 0	- 86 dBm
	802.11ax HT 160	MCS 11	- 53 dBm	MCS 0	- 83 dBm
2.4G EVM	802.11b: ≤ - 10 dB ; 802.11g: ≤ - 25 dB ; 802.11n: ≤ - 28 dB ; 802.11ax: ≤ - 35 dB				
5G EVM	802.11a: ≤ - 25 dB ; 802.11n: ≤ - 28 dB ; 802.11ac: ≤ - 32 dB ; 802.11ax: ≤ - 35dB				
Frequency deviation (ppm)	±20ppm				
Port (WAN)	1×10/100/1000M, Support 48V PoE				
Port (LAN)	1×10/100/1000M				
Reset Botton	Reset*1				
Indicator	Triple color (SYS-red, 2.4G-green, 5.8G-blue)				
Power	PoE 802.3af, DC 2.0 12V/1.5A				
Max. Power Consumption	< 15W				
Indicator	SYS				
Size	186mm× 186mm× 37mm				
Weight	0.55kg				
Temperature	Working: -20°C to 45°C ; Storage: -40°C to 70°C ; Humidity: 5%~95% (Non-Condensing)				
ESD	Air: +/-8K, Touch: +/-4K				
Electrical Surge	Common Mode: 2K, Differential Mode: 1K				

FIRMWARE SPECIFICATIONS	
Working Mode	Gateway, AP
Wireless Functions	Multiple SSID functions: 2.4GHz: 4; 5.8GHz: 4
	Support SSID hidden
	Support seamless roaming
	Support 5G Prior for a faster Ethernet
	Wireless Security: Open, WPA, WPA2PSK_TKIPAES, WAP2_EAP. WPA3
	Support MAC filter
	Support Wi-Fi time on/off to save energy
	Support client isolation to improve the wireless stability
	Support RF power adjustable, adjust the RF power based on environment
	Support user quantity limited, Max 64 users to access each band
Networking Function	VLAN settings
	Cloud access support in gateway mode
Device Management	Back-up the configuration
	Restore the configuration
	Reset to factory default
	Reboot the device: including time reboot or reboot immediately
	Admin management password modify
	Firmware upgrade
	System log
Support firmware GUI web management, AC controller management, remote management and management	
Protocols	IPv4

ANTENNA SPECIFICATIONS

Frequency Range	2.4-2.5GHz, 5.15-5.85GHz
Impedance	50 Ohms nominal
Gain	1.9dBi, 2.7dBi
Radiation	Omni
Polarization	Linear

Supported on Controllers

DG-WU2008 / DG-WU2004 / DG-WU2003 / DG-WU2001 / DG-WU3000



DG-WU2008



DG-WU2004



DG-WU2003



DG-WU2001



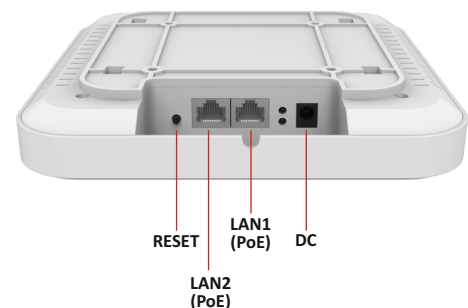
DG-WU3000

Ordering Information:-

DG-WM835AX : DIGISOL Wi-Fi 6 11ax 3000Mbps PoE Indoor Ceiling Mount Wireless Access Point

*Warranty shall be subject to terms and conditions specified in the DIGISOL PRODUCT WARRANTY displayed on the website of the company.

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