PRODUCT BRIEF

Intel® Dual Band Wireless-AC 8265 Desktop Kit
4th Generation Intel 802.11ac, Dual Band, 2x2 Wi-Fi + Bluetooth* 4.2

(intel®)

Intel® Dual Band Wireless-AC 8265 Desktop Kit

Ultra Wi-Fi. Ultra Features. Ultra Connected Experience.

The Intel® Dual Band Wireless-AC 8265 Desktop Kit offers a comprehensive solution to enable Wi-Fi connectivity for your system. Give your desktop a boost with Bluetooth* 4.2 and 2x2 11ac Wi-Fi delivering up to 867Mbps[1] including wave 2 features such as downlink MU-MIMO, providing up to a 3x increase in user speeds in dense deployments and supporting fast downloads compared to legacy 11ac devices.[2] This kit includes two antennas, two RF cables with connectors, two mounting brackets (full and half size), and it is easy and simple to install. When combined with Intel® Core™ processors and exceptional Intel wireless innovations, the Intel® Dual Band Wireless-AC 8265 Desktop Kit dramatically reshapes your wireless experience.

4TH GENERATION INTEL® 802.11AC WIRELESS	
Faster Speed **Better Coverage** **Larger Capacity** **802.11ac, Dual Band, 80MHz, 2x2, MU-MIMO**	Delivers up to 3x faster Wi-Fi speeds (up to 867Mbps) than 802.11n, with up to 3x more bandwidth per stream for more users and devices[3]. Downlink MU-MIMO allows an Access Point to simultaneously transmit data to multiple clients and can improve overall downlink network capacity by up to 3x[2]. Intel® Wireless-AC enables smoother streaming of higher resolution videos, fewer dropped connections, less congestion, and faster speed farther away from the router.
Bluetooth* 4.2	Dual Mode Bluetooth* 4.2 enables BR/EDR low-energy devices to act as a hub and peripheral at the same time. Connects to the newest low-energy Bluetooth* products as well as your familiar devices, such as headsets, keyboards, mice, and more.
Microsoft Windows 10* Ready	Full support for latest Microsoft Windows 10* OS.
M.2 2230 **Form Factor**	M.2 2230 module allows for a lower-cost wireless deployment over PCIe-based solutions. This solution requires a motherboard with an M.2 Key E connector for wireless.

EXPERIENCE THE INTEL® DIFFERENCE	
Worldwide Regulatory Support **Intel® Dynamic Regulatory Solution**	Enables worldwide regulatory compliance on a single Intel® Wireless-AC adapter SKU. The Intel® Dual Band Wireless-AC 8265 Desktop Kit detects its location and automatically optimizes the Wi-Fi settings to local regulatory requirements, simplifying global enterprise procurement. Future regulatory changes are easily managed during the product lifecycle.

BUSINESS-CLASS WIRELESS	
Intel® PROSet/Wireless Software[4]	Includes advanced IT tools to improve security, reduce complexity, and save IT time and money. Streamlines client deployments and allows remote management of wireless settings and profiles by IT managers.

INTEL® DUAL BAND WIRELESS-AC 8265 TECHNICAL SPECIFICATIONS

General

Retail Single Box Dimensions (H x W x D)	145 mm x 205 mm x 26 mm
Retail Single Box Weight	143.5g
Overpack 5u Dimensions (H x W x D)	160 mm x 230 mm x 150 mm
Overpack 5u Weight	727.5g
WsP Module Dimensions (H x W x D)	22 mm x 30 mm x 2.4 mm
WsP Module Weight	2.6g
RF Cable	Coaxial cable OD 1.13 mm FEP Black Jacket
Connectors	SMA, male, brass, gold plated, insulated; MHF IV plug, gold plated
Antenna	Frequency 2.4-2.5GHz/5.15-5.85GHz, SMA plug
Antenna Diversity	Supported
Radio ON/OFF Control	Supported
Motherboard Connector Interface	M.2: key E or A for wireless
Operating Temperature (Adapter Shield)	0°C to +80°C
Humidity Non-Operating	50% to 90% RH non-condensing (at temperatures of 25°C to 35°C)
Operating Systems	Microsoft Windows 7*, Microsoft Windows 8.1*, Microsoft Windows 10*, Linux* (limited feature support)
Wi-Fi Alliance	Wi-Fi CERTIFIED* a/b/g/n/ac, WMM*, WMM-PS*, WPA*, WPA2*, WPS2*, Protected Management Frames, Wi-Fi Direct* for peer-to-peer device connections, Wi-Fi Miracast* as Source
IEEE WLAN Standard	IEEE 802.11a/b/g/n/ac, 802.11d, 802.11e, 802.11h, 802.11i, 802.11w; 802.11r, 802.11k, 802.11v pending OS support; Fine Timing Measurement based on 802.11REVmc
Roaming[5]	Supports seamless roaming between access points
Bluetooth*	Dual Mode Bluetooth* 4.2, BLE

Security[6]

Authentication	WPA* and WPA2*, 802.1X (EAP-TLS, TTLS, PEAP, LEAP, EAP-FAST), EAP-SIM, EAP-AKA, EAP-AKA'
Authentication Protocols	PAP, CHAP, TLS, GTC, MS-CHAP*, MS-CHAPv2
Encryption	64-bit and 128-bit WEP, 128-bit AES-CCMP
Wi-Fi Direct* Encryption and Authentication	WPA2-PSK, AES-CCMP

Compliance

Regulatory	For a list of country approvals, please contact your local Intel representatives.
U.S. Government	FIPS[7], FISMA
Product Safety	UL, C-UL, CB (IEC 60950-1)

PRODUCT NAME	MODEL NUMBER	VERSION
Intel® Dual Band Wireless-AC 8265 Desktop Kit	8265NGWMG.DTX1	802.11ac, 2x2, Bluetooth* 4.2

For more information on Intel® Wireless products, visit intel.com/wireless

[1] Based on the theoretical maximum bandwidth enabled by 2x2 802.11ac implementations. Actual wireless throughput and/or range will vary depending on your specific operating system, hardware, and software configurations. Check with your device manufacturer for details.

[2] 802.11ac downlink MU-MIMO technology allows concurrently serving multiple devices simultaneously, in turn increasing network capacity by up to 3x while improving per-user throughput.

[3] Compared to 802.11n 40MHz channels, 802.11ac 80MHz provides 3x more bandwidth per stream (Max data rate for 2x2 802.11n 40MHz channel is 300Mbps, 150Mbps per stream; Max data rate for 2x2 802.11ac 80MHz channel is 867Mbps, 433Mbps per stream).

[4] Intel® PROSet/Wireless Software may not be supported by your device manufacturer. Check with your device manufacturer for details on availability.

[5] Roaming is supported only within each respective band and mode of access points.

[6] Some security solutions may not be supported by your device operating system and/or by your device manufacturer. Check with your device manufacturer for details on availability.

[7] Microsoft Windows 7*, Microsoft Windows 8.1* and Microsoft Windows 10*.