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Specifications

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Intel Wireless WiFi Link 4965AGN

Form Factor	PCI Express (TM) Mini Card	
Dimensions	Height 2.00 in x 1.18 in x 0.18 in (50.95 mm x 30 mm x 4.5 mm)	
Antenna Interface Connector	Hirose U.FL-R-SMT mates with cable connector U.FL-LP-066	
Antenna Diversity	On-board diversity	
Connector Interface	53-pin Mini Card edge connector	
Voltage	3.3 V	
Operating Temperature	0 to +80 degrees Celsius	
Humidity	50% to 95% non-condensing (at temperatures of 25 °C to 35 °C)	
Frequency Modulation	5 GHz (802.11a/n)	2.4 GHz (802.11b/g/n)
Frequency band	5.15 GHz - 5.85 GHz (dependent on country)	2.400 - 2.4835 GHz (dependent on country)
Modulation	BPSK, QPSK, 16 QAM, 64 QAM	CCK, DQPSK, DBPSK
Wireless Medium	5 GHz UNII: Orthogonal Frequency Division Multiplexing (OFDM)	2.4 GHz ISM: Orthogonal Frequency Division Multiplexing (OFDM)
Channels	4 to 12 (dependent on country)	Channel 1-11 (US only) Channel 1-13 (Japan, Europe)
IEEE 802.11n	300, 270, 243, 240, 180, 150, 144, 135, 130, 120, 117, 115.5, 90, 86.667, 72.2, 65, 60, 57.8, 45, 43.3, 30, 28.9, 21.7, 15, 14.4, 7.2 Mbps	
IEEE 802.11a Data Rates	54, 48, 36, 24, 18, 12, 9, 6 Mbps	
IEEE 802.11g Data Rates	54, 48, 36, 24, 18, 12, 9, 6 Mbps	
IEEE 802.11b Data Rates	11, 5.5, 2, 1 Mbps	
General		
Operating Systems	Microsoft Windows 2000. Microsoft Windows XP (32 and 64 bit). Windows Vista(TM) (32 and 64 bit)	
Wi-Fi(R) Alliance certification	Wi-Fi(R) certification for 802.11b, 802.11g, 802.11a, WPA, WPA2, WMM, EAP-SIM	
Cisco Compatible Extensions certification	Cisco Compatible Extensions, v4.0	
WLAN Standard	IEEE 802.11g, 802.11b 802.11a, 802.11n	
Architecture	Infrastructure or ad hoc (peer-to-peer) operating modes	
Security	WPA-Personal, WPA2-Personal, WPA-Enterprise, WPA2-Enterprise, AES-CCMP 128-bit, WEP 128-bit and 64-bit; 802.1x: EAP-SIM, LEAP, PEAP, TKIP, EAP-FAST, EAP-TLS, EAP-TTLS, MD5	
Product Safety	UL, C-UL, CB (IEC 60590)	

Intel Wireless WiFi Link 4965AG

(version with Draft N capabilities disabled. Draft N refers to: IEEE P802.11n(TM)/D1.0 Draft Amendment to STANDARD [FOR] Information Technology-Telecommunications and information exchange between systems-Local and Metropolitan networks-Specific requirements-Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications: Enhancements for Higher Throughput)

Form Factor	PCI Express (TM) Mini Card	
Dimensions	Height 2.00 in x 1.18 in x 0.18 in (50.95 mm x 30 mm x 4.5 mm)	
Antenna Interface Connector	Hirose U.FL-R-SMT mates with cable connector U.FL-LP-066	
Antenna Diversity	On-board diversity	
Connector Interface	53-pin Mini Card edge connector	
Voltage	3.3 V	
Operating Temperature	0 to +80 degrees Celsius	
Humidity	50% to 95% non-condensing (at temperatures of 25 °C to 35 °C)	
Frequency Modulation	5 GHz (802.11a/n)	2.4 GHz (802.11b/g/n)
Frequency band	5.15 GHz - 5.85 GHz (dependent on country)	2.400 - 2.4835 GHz (dependent on country)
Modulation	BPSK, QPSK, 16 QAM, 64 QAM	CCK, DQPSK, DBPSK
Wireless Medium	5 GHz UNII: Orthogonal Frequency Division Multiplexing (OFDM)	2.4 GHz ISM: Orthogonal Frequency Division Multiplexing (OFDM)
Channels	4 to 12 (dependent on country)	Channel 1-11 (US only) Channel 1-13 (Japan, Europe)
IEEE 802.11n	300, 270, 243, 240, 180, 150, 144, 135, 130, 120, 117, 115.5, 90, 86.667, 72.2, 65, 60, 57.8, 45, 43.3, 30, 28.9, 21.7, 15, 14.4, 7.2 Mbps	
IEEE 802.11a Data Rates	54, 48, 36, 24, 18, 12, 9, 6 Mbps	
IEEE 802.11g Data Rates	54, 48, 36, 24, 18, 12, 9, 6 Mbps	
IEEE 802.11b Data Rates	11, 5.5, 2, 1 Mbps	
General		
Operating Systems	Microsoft Windows 2000. Microsoft Windows XP (32 and 64 bit). Windows Vista(TM) (32 and 64 bit)	
Wi-Fi(R) Alliance certification	Wi-Fi(R) certification for 802.11b, 802.11g, 802.11a, WPA, WPA2, WMM, EAP-SIM	
Cisco Compatible Extensions certification	Cisco Compatible Extensions, v4.0	
WLAN Standard	IEEE 802.11g, 802.11b 802.11a, 802.11n	
Architecture	Infrastructure or ad hoc (peer-to-peer) operating modes	
Security	WPA-Personal, WPA2-Personal, WPA-Enterprise, WPA2-Enterprise, AES-CCMP 128-bit, WEP 128-bit and 64-bit; 802.1x: EAP-SIM, LEAP, PEAP, TKIP, EAP-FAST, EAP-TLS, EAP-TTLS, MD5	
Product Safety	UL, C-UL, CB (IEC 60590)	

Intel PRO/Wireless 3965ABG Network Connection

Form Factor	PCI Express (TM) X1	
Dimensions	Height 2.59 in x 2.77 in x 0.18 in (65.8 mm x 70.3 mm x 4.5 mm)	
Antenna Interface Connector	Tyco connector	
Connector Interface	36-pin PCI Express edge connector	
Voltage	3.3 V	
Operating Temperature	0 to +80 degrees Celsius	
Humidity	0% to 95% non-condensing at temperature of 25 °C to 85 °C	
Frequency Modulation	5 GHz (802.11a)	2.4 GHz (802.11b/g)
Frequency band	5.15 GHz - 5.85 GHz	2.400 - 2.4835 GHz (dependent on country)
Modulation	BPSK, QPSK, 16 QAM, 64 QAM	CCK, DQPSK, DBPSK
Wireless Medium	5 GHz UNII: Orthogonal Frequency Division Multiplexing (OFDM)	2.4 GHz ISM: Orthogonal Frequency Division Multiplexing (OFDM)
Channels	4 to 12 non-overlapping, dependent on SKU	Channel 1-11 (MoW) Channel 1-13 (RoW)
Data Rates	54, 48, 36, 24, 18, 12, 9, 6 Mbps	11, 5.5, 2, 1 Mbps
General		
Operating Systems	Microsoft Windows 2000. Microsoft Windows XP (32 and 64 bit). Microsoft Windows Vista (32 and 64 bit)	
Wi-Fi(R) Alliance certification	WPA™ - Enterprise, WPA™ - Personal, WPA2™ - Enterprise, WPA2™ - Personal Enhanced EAP: EAP-TLS, EAP-TTLS/ MSCHAPv2, PEAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC, WMM™, WMM-UAPSD (WIP)	
Cisco Compatible Extensions certification	Cisco Compatible Extensions, v4.0	
WLAN Standard	IEEE 802.11a, IEEE 802.11b IEEE 802.11g, IEEE 802.11d, IEEE 802.11h	
Architecture	Infrastructure or ad hoc (peer-to-peer) operating modes	
Security	WPA-Personal, WPA2-Personal, WPA-Enterprise, WPA2-Enterprise, AES-CCMP 128-bit, WEP 128-bit and 64-bit; 802.1x: EAP-SIM, LEAP, PEAP, TKIP, EAP-FAST, EAP-TLS, EAP-TTLS, MD5	
Product Safety	UL, C-UL, CB (IEC 60590)	

Intel PRO/Wireless 3945ABG Network Connection

Form Factor	PCI Express (TM) Mini Card	
Dimensions	Height 2.00 in x 1.18 in x 0.18 in (50.95 mm x 30 mm x 4.5 mm)	
Antenna Interface Connector	Hirose U.FL-R-SMT mates with cable connector U.FL-LP-066	
Dual Diversity Antenna	On-board dual diversity switching	
Connector Interface	53-pin Mini Card edge connector	
Voltage	3.3 V	
Operating Temperature	0 to +80 degrees Celsius	
Humidity	50 to 92% non-condensing (at temperatures of 25 °C to 55 °C)	
Frequency Modulation	5 GHz (802.11a)	2.4 GHz (802.11b/g)
Frequency band	5.15 GHz - 5.85 GHz	2.400 - 2.4835 GHz (dependent on country)
Modulation	BPSK, QPSK, 16 QAM, 64 QAM	CCK, DQPSK, DBPSK
Wireless Medium	5 GHz UNII: Orthogonal Frequency Division Multiplexing (OFDM)	2.4 GHz ISM: Orthogonal Frequency Division Multiplexing (OFDM)
Channels	4 to 12 non-overlapping, dependent on country	Channel 1-11 (US only) Channel 1-13 (Japan, Europe)
Data Rates	54, 48, 36, 24, 18, 12, 9, 6 Mbps	11, 5.5, 2, 1 Mbps
General		
Operating Systems	Microsoft Windows XP, Microsoft Windows 2000	
Wi-Fi(R) Alliance certification	Wi-Fi(R) certification for 802.11b, 802.11g, 802.11a, WPA, WPA2, WMM, EAP-SIM, LEAP, PEAP, TKIP, EAP-FAST, EAP-TLS, EAP-TTLS, MD5	
Cisco Compatible Extensions certification	Cisco Compatible Extensions, v4.0	
WLAN Standard	IEEE 802.11g, 802.11b, 802.11a	
Architecture	Infrastructure or ad hoc (peer-to-peer) operating modes	
Security	WPA-Personal, WPA2-Personal, WPA-Enterprise, WPA2-Enterprise, AES-CCMP 128-bit, WEP 128-bit and 64-bit; 802.1x: EAP-SIM, LEAP, PEAP, TKIP, EAP-FAST, EAP-TLS, EAP-TTLS, MD5	
Product Safety	UL, C-UL, CB (IEC 60590)	

Intel PRO/Wireless 3945BG Network Connection

Form Factor	PCI Express (TM) Mini Card	
Dimensions	Height 2.00 in x 1.18 in x 0.18 in (50.95 mm x 30 mm x 4.5 mm)	
Antenna Interface Connector	Hirose U.FL-R-SMT mates with cable connector U.FL-LP-066	
Dual Diversity Antenna	On-board dual diversity switching	
Connector Interface	53-pin Mini Card edge connector	
Voltage	3.3 V	
Operating Temperature	0 to +80 degrees Celsius	
Humidity	50 to 92% non-condensing (at temperatures of 25 °C to 55 °C)	
Frequency Modulation	2.4 GHz (802.11b/g)	
Frequency band	2.400 - 2.4835 GHz (dependent on country)	
Modulation	CCK, DQPSK, DBPSK	
Wireless Medium	2.4 GHz ISM: Orthogonal Frequency Division Multiplexing (OFDM)	
Channels	Channel 1-11 (US only) Channel 1-13 (Japan, Europe)	
Data Rates	11, 5.5, 2, 1 Mbps	
General		
Operating Systems	Microsoft Windows XP, Microsoft Windows 2000	
Wi-Fi(R) Alliance certification	Wi-Fi(R) certification for 802.11b, 802.11g, 802.11a, WPA, WPA2, WMM, EAP-SIM, LEAP, PEAP, TKIP, EAP-FAST, EAP-TLS, EAP-TTLS, MD5	
Cisco Compatible Extensions certification	Cisco Compatible Extensions, v4.0	
WLAN Standard	IEEE 802.11g, 802.11b	
Architecture	Infrastructure or ad hoc (peer-to-peer) operating modes	
Security	WPA-Personal, WPA2-Personal, WPA-Enterprise, WPA2-Enterprise, AES-CCMP 128-bit, WEP 128-bit and 64-bit; 802.1x: EAP-SIM, LEAP, PEAP, TKIP, EAP-FAST, EAP-TLS, EAP-TTLS, MD5	
Product Safety	UL, C-UL, CB (IEC 60590)	

Intel PRO/Wireless 2915ABG Network Connection

Form Factor	Mini PCI Type 3A	
Dimensions	Width 2.85 in x Length 1.75 in x Height 0.20 in (59.45 mm x 44.45 mm x 5 mm)	
Weight	0.7 oz. (12.90 g.)	
Antenna Interface Connector	Hirose U.FL-R-SMT mates with cable connector U.FL-LP-066	
Dual Diversity Antenna	On-board dual diversity switching	
Connector Interface	124-pin SO-DIMM edge connector	
Voltage	3.3 Volt	
Operating Temperature	0 to +70 degrees Celsius	
Humidity	50 to 85% non-condensing	
Frequency Modulation	5 GHz (802.11a)	2.4 GHz (802.11b/g)
Frequency band	5.15 GHz - 5.85 GHz	2.400 - 2.472 GHz (dependent on country)
Modulation	BPSK, QPSK, 16 QAM, 64 QAM	CCK, DQPSK, DBPSK
Wireless Medium	5 GHz UNII: Orthogonal Frequency Division Multiplexing (OFDM)	2.4 GHz ISM: Orthogonal Frequency Division Multiplexing (OFDM)
Channels	4 to 12 non-overlapping, dependent on country	Channel 1-11 (US only) Channel 1-13 (Japan, Europe)
Data Rates	54, 48, 36, 24, 18, 12, 9, 6 Mbps	11, 5.5, 2, 1 Mbps
General		
Operating Systems	Microsoft Windows XP, Microsoft Windows 2000	
Wi-Fi(R) Alliance certification	Wi-Fi(R) certification for 802.11b, 802.11g, 802.11a, WPA, WPA2, WMM, EAP-SIM, LEAP, PEAP, TKIP, EAP-FAST, EAP-TLS, EAP-TTLS, MD5	
Cisco Compatible Extensions certification	Cisco Compatible Extensions, v3.0	
WLAN Standard	IEEE 802.11g, 802.11b, 802.11a	
Architecture	Infrastructure or ad hoc (peer-to-peer) operating modes	
Security	WPA-Personal, WPA2-Personal, WPA-Enterprise, WPA2-Enterprise, AES-CCMP 128-bit, WEP 128-bit and 64-bit; 802.1x: EAP-SIM, LEAP, PEAP, TKIP, EAP-FAST, EAP-TLS, EAP-TTLS, MD5	
Product Safety	UL, C-UL, CB (IEC 60590)	

Intel PRO/Wireless 2200BG Network Connection

Form Factor	Mini PCI Type 3B	
Dimensions	Width 2.34 in x Length 1.75 in x Height 0.20 in (59.45 mm x 44.45 mm x 5 mm)	
Weight	0.7 oz. (12.90 g.)	
Antenna Interface Connector	Hirose U.FL-R-SMT mates with cable connector U.FL-LP-066	
Dual Diversity Antenna	On-board dual diversity switching	
Connector Interface	124-pin mini PCI edge connector	
Voltage	3.3 V	
Operating Temperature	0 to +70 degrees Celsius	
Humidity	50 to 85% non-condensing	
Frequency Modulation	OFDM with BPSK, QPSK, 16QAM, 64QAM, DBPSK, DQPSK, CCK	
Frequency band	2.400 - 2.472 GHz (US) 2.400 - 2.4835 GHz (Japan) 2.400 - 2.4835 GHz (Europe ETSI)	
Modulation	OFDM with BPSK, QPSK, 16QAM, 64QAM, DBPSK, DQPSK, CCK	
Channels	Full 14 channel support	
Data Rates	1, 2, 5.5, 6, 9, 11, 12, 24, 36, 48 and 54 Mbps	
General		
Operating Systems	Microsoft Windows XP, Microsoft Windows 2000	
Wi-Fi(R) Alliance certification	Wi-Fi(R) certification for 802.11b, 802.11g, 802.11a, WPA, WPA2, WMM, EAP-SIM, LEAP, PEAP, TKIP, EAP-FAST, EAP-TLS, EAP-TTLS, MD5	
Cisco Compatible Extensions certification	Cisco Compatible Extensions, v2.0	
WLAN Standard	IEEE 802.11g and 802.11b	
Architecture	Infrastructure or ad hoc (peer-to-peer) operating modes	
Security	WPA, LEAP, PEAP, TKIP, EAP-TLS, EAP-TTLS, AES (128-bit), WEP 128-bit and 64-bit.	
Product Safety	UL, C-UL, CB (IEC 60590)	

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