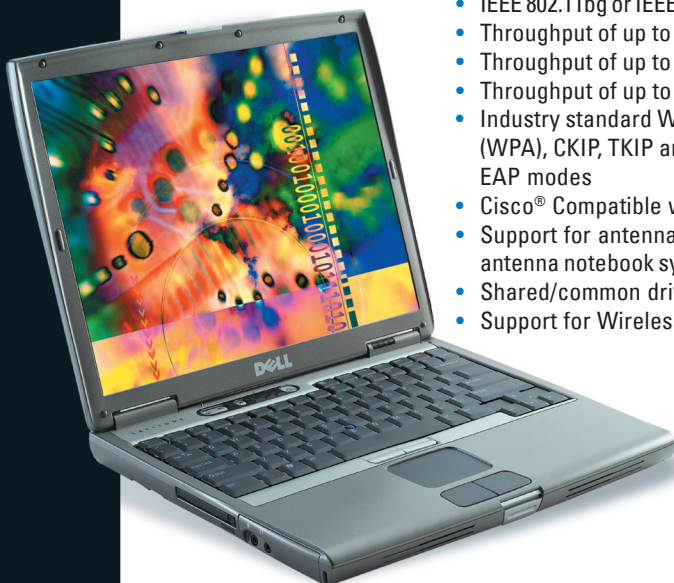


Dell Wireless 1350 (802.11b/g) miniPCI Card

Dell Wireless 1450 (802.11a/b/g) miniPCI Card



Key Features

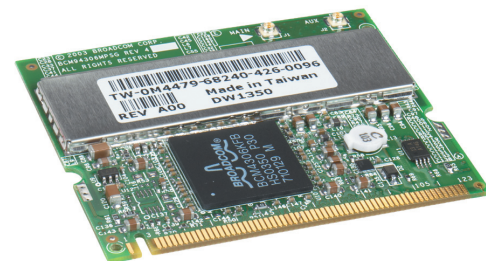
- IEEE 802.11b/g or IEEE Dual-Band 802.11a/b/g Wi-Fi® CERTIFIED Wireless LAN support
- Throughput of up to 11 Mbps¹ at 2.4 GHz with 802.11b
- Throughput of up to 54 Mbps¹ at 2.4 GHz with 802.11g
- Throughput of up to 54 Mbps¹ at 5 GHz with 802.11a
- Industry standard Wireless LAN security with support for Wi-Fi Protected Access (WPA), CKIP, TKIP and WEP encryption and support for LEAP, TLS, TTLS and PEAP EAP modes
- Cisco® Compatible with Cisco Compatible Extensions (CCXv2) certification
- Support for antenna diversity enabling optimized WLAN performance with multi-antenna notebook systems
- Shared/common driver with Dell Wireless 1350 & 1450 miniPCI Cards
- Support for Wireless Multimedia Extensions (WME)



The Dell Wireless solutions are convenient, easy to set up and now faster than ever. New standards for wireless LAN's have boosted speed, increased security and expanded reach for more reliable and secure connections. From enterprise access points, home or small office broadband routers to a comprehensive selection of integrated wireless networking options across the Latitude™ and Inspiron™ notebooks, Dell has the end-to-end wireless solutions required to meet the needs of today's businesses, homes and public places.

Security

Dell Wireless integrated notebook networking options support industry standard security solutions enabling secure connectivity. Dell Wireless networking solutions are Wi-Fi CERTIFIED™ to ensure interoperability with other certified products and support the latest in Wi-Fi security with support for Wi-Fi Protected Access (WPA), WEP, CKIP and TKIP encryption and LEAP, TLS, TTLS and PEAP EAP modes. Dell Wireless solutions are also certified under the Cisco Compatible Extensions (CCX) Program to help ensure interoperability with Cisco wireless LAN infrastructure and other Cisco Compatible certified products.



Performance

Dell Wireless offers the choice of two distinct integrated notebook solutions. The Dell Wireless 1350 is a single-band 802.11b/g solution supporting throughput of up to 54 Mbps¹ at 2.4 GHz (802.11g) or 11 Mbps¹ at 2.4 GHz (802.11b). The Dell Wireless 1450 is a dual-band 802.11a/b/g solution supporting throughput of up to 54 Mbps¹ at 2.4 GHz (802.11g) or 11 Mbps¹ at 2.4 GHz (802.11b) OR throughput of up to 54 Mbps¹ at 5 GHz (802.11a). Whether your concern is range, capacity or throughput, Dell Wireless has a solution to meet the right balance of these needs.

Enhanced Battery Life

Dell Wireless networking options utilize a power-save mode to help optimize the battery life of a Dell Wireless enabled notebook. Power is conserved further when the notebook is in standby mode by using SuperStandby™ technology by Broadcom™ that wakes the minimum amount of circuitry for the shortest period of time.

Ease-of-use

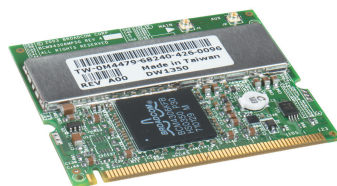
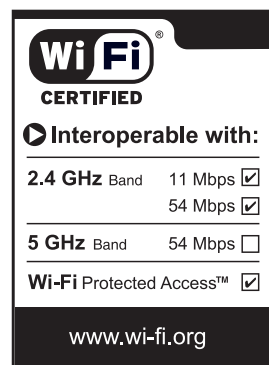
The Dell Wireless 1350 & 1450 solutions share a common driver and software utility - making these solutions easy to deploy and easy to manage. The Dell Wireless software allows for multiple profile setup and automatic switching between profiles for simplified wireless access as you move between different access points. The Dell Wireless software utility provides Connection Status, Site Monitoring, Wireless Network Management and Diagnostics.



Dell Wireless 1350 (802.11b/g) miniPCI Card

Technical Specifications

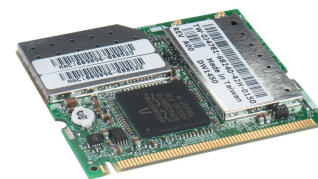
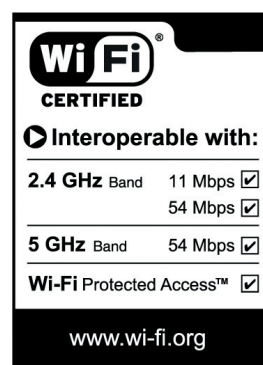
Host Interface	32-bit Mini-PCI
Network Standard	IEEE 802.11b and IEEE 802.11g
Data Rate ¹	802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11b: 1, 2, 5.5, 11 Mbps
Modulation	802.11g: OFDM (6, 9, 12, 18, 24, 36, 48, 54 Mbps) 802.11b: CCK (11 Mbps, 5.5 Mbps), DQPSK (2 Mbps), DBPSK (1 Mbps)
Network Architecture	Infrastructure and Ad-hoc
Operating Frequencies	2.4-2.484 GHz
Operating Channels	802.11b/g: Channels 1-11 for Americas, Taiwan, Thailand; Channels 1-13 for Rest of World
RF Output Power	15 dBm max @ antenna connector
Antennae Connectors	Hardware diversity support. Main and auxiliary antenna connectors; transmit and receive on both
Range ³	802.11g: 54 Mbps up to 50m open environment, 20m indoors; 18 Mbps up to 150m open environment, 75m indoors 802.11b: 11 Mbps up to 180m open environment, 60m indoors; 1 Mbps up to 570m open environment, 125m indoors
Receive Sensitivity ⁴	802.11g: -68 dBm @ 54 Mbps; -83 dBm @ 18 Mbps
Power Consumption	TX peak: 1000 mW; RX peak: 800 mW; Idle (associated): 740 mW; Radio Disabled: 20 mW
Security	Encryption (WEP, CKIP, TKIP); WPA (PSK, 802.1x); CCXv2 (CCKM); Software upgradeable to 802.11i; Single Sign ON; EAP modes: LEAP, TLS, TTLS, PEAP (TLS, MS-CHAPv2, GTC); Single Sign On for LEAP
Delay Tolerance	Multi-path RMS delay spread @ 1% FER: 1 Mbps > 250 nsec; 5.5 Mbps > 300 nsec
Client Utility	Wireless Network Management, Site Monitor, Current Link Status, and Diagnostics
Software Support	Microsoft® WHQL certified for Windows® XP and Windows 2000
LED Indicators	WLAN activity monitor, WLAN radio state indicator
Switch	Manual radio on/off disables transmit and receive to comply with aviation inflight restrictions
Temperatures	Operates from 0° to 70° C; storage from -40° to 90° C
Humidity (non-condensing)	Up to 95%



Dell Wireless 1450 (802.11a/b/g) miniPCI Card

Technical Specifications

Host Interface	32-bit Mini-PCI
Network Standard	IEEE 802.11a, IEEE 802.11b, IEEE 802.11g, IEEE 802.11h DRAFT specification
Data Rate ¹	802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11b: 1, 2, 5.5, 11 Mbps
Modulation	802.11a/g: OFDM (6, 9, 12, 18, 24, 36, 48, 54 Mbps); 802.11b: CCK (11 Mbps, 5.5 Mbps), DQPSK (2 Mbps), DBPSK (1 Mbps)
Network Architecture	Infrastructure and Ad-hoc
Operating Frequencies	802.11a: 50150-5.825 GHz 802.11b/g: 2.4-2.484 GHz
Operating Channels	802.11a: Channels 36-64 for Americas and Europe (Channels 100-140 also in some European countries); Channels 34-46 for Japan; Channels 149-161 for Brazil and Korea 802.11b/g: Channels 1-11 for Americas, Taiwan Channels 1-13 for Rest of World
RF Output Power	802.11a ⁵ : 21 dBm max @ antenna connector 802.11b/g: 15 dBm max @ antenna connector
Antennae Connectors	Hardware diversity support. Main and auxiliary antenna connectors; transmit and receive on both
Range ³	802.11a/h: 54 Mbps up to 30m open environment, 10m indoors; 18 Mbps up to 100m open environment, 50m indoors 802.11g: 54 Mbps up to 50m open environment, 20m indoors; 18 Mbps up to 150m open environment, 75m indoors 802.11b: 11 Mbps up to 180m open environment, 60m indoors; 1 Mbps up to 570m open environment, 125m indoors
Receive Sensitivity ⁴	802.11a/g: -68 dBm @ 54 Mbps; -83 dBm @ 18 Mbps 802.11b: -84 dBm @ 11 Mbps; -92 dBm @ 1 Mbps
Power Consumption	TX peak: 1000 mW; RX peak: 1200 mW; Idle (associated): 740 mW; Radio Disabled: 20 mW
Security	Encryption (WEP, CKIP, TKIP, AES); WPA (PSK, 802.1x); CCXv2 (CCKM); Software upgradeable to 802.11i; Single Sign ON; EAP modes: LEAP, TLS, TTLS, PEAP (TLS, MS-CHAPv2, GTC); Single Sign On for LEAP
Delay Tolerance	Multi-path RMS delay spread @ 1% FER: 11 Mbps > 250 nsec; 5.5 Mbps > 300 nsec
Client Utility	Wireless Network Management, Site Monitor, Current Link Status, and Diagnostics
Software Support	Microsoft® WHQL certified for Windows® XP and Windows 2000
LED Indicators	WLAN activity monitor, WLAN radio state indicator
Switch	Manual radio on/off disables transmit and receive to comply with aviation inflight restrictions
Temperatures	Operates from 0° to 70° C; storage from -40° to 90° C
Humidity (non-condensing)	Up to 95%



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