Gemtek
Wireless Broadband Anywhere

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WL-352B   Wireless LAN Card Specifications

Rev.1.0

Product Name	11 Mbps Wireless LAN Mini-PCI Card	
Model Number	WL-352B	
Host Interface	Mini-PCI Type III A	
Dimensions	59.7 x 59.95 x 3.5 mm	
Weight	11g	
Frequency Band	2.412 ~ 2.4835GHz (subject to local regulations)	
Number of Channels	USA and Canada – 11	Most European countries – 13
	France – 4	Japan – 14
Operating Voltage	3.3V	
Current Consumption	RX $\leq$ 230mA TX $\leq$ 350mA	
Modulation Type	DSSS (Direct Sequence Spread Spectrum)	
Data Rate	11 Mbps; 5.5 Mbps; 2 Mbps; 1 Mbps	
Transmit Power	Typ. 14 dBm	
Receive Sensitivity	Tpy –80 dBm @11Mbps	
Modulation	11 Mbps and 5.5 Mbps: CCK; 2 Mbps: DQPSK; 1 Mbps: DBPSK	
Security	64-bit, 128-bit WEP	
Antenna	Build-in Inside host	
LED indicator	None	
Supplied Driver	Windows 2000,WindowsXP	
Standards	IEEE 802.11b, Wi-Fi compliant	
Media Access Protocol	CSMA/CA with ACK	
Warranty	1 year	
Temperature Range	0 ~ 65°C (Operating), -20~85°C (Storage)	
Humidity	Max. 95% Non-condensing	
Operating Range	Open space: 100 – 300m; Indoor: 30m – 100m The transmission speed varies in the surrounding environment.	
Roaming	Full mobility and seamless roaming from cell to cell and across access points	
Network Protocol	TCP/IP, IPX, NetBEUI	
Management Utility	Link configuration for network join and diagnostics	
EMC certification	FCC part 15B, 15C ; R&TTE ; TELEC/JATE	
Packaging	Customer define	
CIS	Customer define	

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WL-550 IEEE 802.11a Mini-PCI General Specification Sheet

Revision History

Revision	Date	Change Description
V0.1	2001/11/12	Preliminary
V0.2	2002/01/30	Correct and update some spec.

Specification

Product Name	54 Mbps Wireless LAN Mini-PCI Card
Model Number	WL-550
Host Interface	Mini PCI type III A
Dimensions	60.0 x 50.90 x 5 mm
Weight	13g
Frequency Band	Unlicensed National Information Infrastructure (U-NII) frequency band, 5.15GHz to 5.35GHz (subject to local regulations)
Number of Channel	5.15～5.25GHz (lower band) Four 20MHz Channels 5.25～5.35GHz(middle band) Four 20MHz Channels
Operating Voltage	3.3V ± 5% 5V ± 5% for external PA
Spreading	Orthogonal Frequency Division Multiplexing (OFDM)
Modulation	64 QAM, 16 QAM, QPSK, BPSK
Data Rate	54, 48, 36,24,18,12, 9, 6 Mbps per channel, auto fallback for extended range; (option : Enhanced proprietary Turbo Mode up to 72 Mbps)
Security	64/128/152-bit WEP Encryption
Antenna	Build-in inside host.(HRS:U.FL-R-SMT(10))
Transmitted power	Max. +17dBm @ 16QAM R3/4
Receive Sensitivity	Nominal Temp Range: - 6Mbps 10-5 BER @ -86dBm, typical - 9Mbps 10-5 BER @ -85dBm, typical - 12Mbps 10-5 BER @ -84dBm, typical - 18Mbps 10-5 BER @ -82dBm, typical - 24Mbps 10-5 BER @ -80dBm, typical - 36Mbps 10-5 BER @ -75dBm, typical - 48Mbps 10-5 BER @ -68dBm, typical - 54Mbps 10-5 BER @ -67dBm, typical
Power consumption	Max.1.95W
Supplied Driver	Windows 98SE/ME/NT4.0/2000/XP
Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.11a
Warranty	1 year
Temperature Range	0 ~ 60°C (Operating); -40 ~ 85°C (Storing)
Humidity	Max. 95% non-condensing
Operating Range	Open Space: Up to 300 m: Indoor: 100 m The transmission speed varies in the surrounding environment
Roaming	Seamless roaming among 802.11a compliant access points
Network Protocol	TCP/IP, IPX, NDIS4, and NDIS5 ,NDIS 5.1

Detail Specifications are subject to change without further notification.

Management Utility	Configuration Utility for network join and diagnostics
EMC certification	FCC part 15 class in US, and TELEC/JATE in Japan
System Requirements	Laptop PC containing → 64MB memory or greater → 300MHz processor or greater Microsoft Windows 98 Second Edition/Millennium Edition/2000/NT 4.0 with Service Pack 6