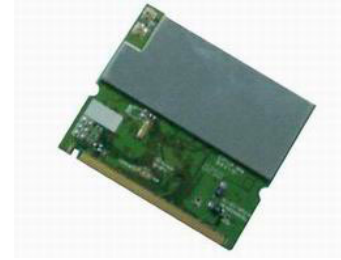


5GHz/2.4GHz

Dual Band Wireless Mini-PCI Adapter

Model no. NL-5354MP Aries



Up to 108Mbps

Feature	Benefit
Flexible design for embedded system	Can be designed for OEM project /embedded system
2.4GHz IEEE802.11b/g (draft) standard and 5GHz IEEE802.11a standard compliant	Fully interoperable with IEEE802.11a/b/g (draft) compliant products.
Up to 54Mbps and 108Mbps (turbo mode) high-speed data rates	Capable of handling heavy data payloads such as MPEG video streaming
Up to 152-bit WEP data encryption with TKIP	Powerful data security.
IEEE802.1x Client support (Optional)	Enhances authentication and security.
Dynamic Frequency Selection (DFS) support	Provides flexible selection of the best frequency to allow mobility among all existing IEEE802.11a/b/g networks.
Transmission Power Control (TPC) support	Offers flexibility to adjust RF output power.
Multi-country Roaming (802.11d) support	Automatically adjusts regulatory domain to operate in different countries.

General

Data Rates (Auto-rate capable)	802.11a : 6, 9, 12, 18, 24, 36, 48, 54 & 108Mbps(Turbo Mode) 802.11g : 6, 9, 12, 18, 24, 36, 48 & 54Mbps. 802.11b : 1, 2, 5.5, 11Mbps.
Network Standards	WECA (Wi-Fi & Wi-Fi5), IEEE802.11, IEEE802.11a, IEEE802.11g draft, IEEE802.11b, draft IEEE 802.11e, f, h, and i standards
Compliance	FCC Part 15 Class B, ETSI 300.328, ETSI 300 826, CE mark
Drivers	Windows 98/ME/2000/XP
Operational voltage	3.3 V
Security	<ul style="list-style-type: none">IEEE802.1x Support for LEAP (Optional)WPA - Wi-Fi Protected Access (64,128,152-WEP with TKIP)AES (Advance Encryption Security) Support

RF Information

Frequency Band	802.11a <ul style="list-style-type: none">5.15~5.25GHz, 5.25~5.35GHz, 5.725~5.825GHz
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	802.11b/g <ul style="list-style-type: none"> 2.412~2.462GHz(US) 2.412~2.484GHz(Japan) 2.412~2.472GHz(Europe ETSI) 2.457~2.462GHz(Spain) 2.457~2.472GHz(France)
Media Access Protocol	CSMA/CA with ACK
Modulation Technology	802.11a/g : OFDM (64-QAM, 16-QAM, QPSK, BPSK) 802.11b : DSSS (DBPSK, DQPSK, CCK)
Receive Sensitivity	802.11a : -84dBm @ 6Mbps -77dBm @ 18Mbps -70dBm @ 48Mbps -82dBm @ 9Mbps -75dBm @ 24Mbps -68dBm @ 54Mbps -79dBm @ 12Mbps -73dBm @ 36Mbps 802.11b/g : -91dBm @ 1Mbps -84dBm @ 6Mbps -75dBm @ 24Mbps -90dBm @ 2Mbps -82dBm @ 9Mbps -73dBm @ 36Mbps -89dBm @ 5.5Mbps -79dBm @ 12Mbps -70dBm @ 48Mbps -87dBm @ 11Mbps -77dBm @ 18Mbps -68dBm @ 54Mbps
Transmit Output Power (Typical)	802.11a : 18dBm+/-2 @6-24Mbps 15dBm+/-2 @54Mbps 17dBm+/-2 @36Mbps 13dBm+/-2 @108Mbps 16dBm+/-2 @48Mbps 802.11g : 20dBm +/-2dBm @ 6~24Mbps 17dBm +/-2dBm @ 48 Mbps 19dBm +/-2dBm @ 36 Mbps 15dBm +/-2dBm @ 54 Mbps 802.11b : 20dBm +/-2dBm for all rates
Physical	
Interface	Mini PCI Type III A
Connector	2 x U.FL connectors
Dimensions (HxWxL)	4.8mm x 59.6mm x 50.9mm (0.2in x 2.3in x 2in)
Weight	15 g (0.53 oz.)
Environmental	
Temperature Range	0°C to 55°C (32°F to 131°F) - Operating -40°C to 70°C (-40°F to 158°F) - Storage
Humidity (non-condensing)	5%~95% Typical

Update by 2003/7/4

All specifications are subject to change without notice.