

2.4GHz

Super G Wireless Mini-PCI Adapter

Model no. NL-3054MP+ Aries2



Up to 108Mbps

Feature	Benefit
Flexible design for embedded system	Can be designed for OEM project /embedded system
2.4GHz IEEE802.11b/g standard compliant	Fully interoperable with IEEE802.11b/g compliant products.
Up to 54Mbps and 108Mps (Super G mode) high-speed data rates	Capable of handling heavy data payloads such as MPEG video streaming
Wi-Fi Protected Access(WPA) Client Support Up to 152-bit WEP data encryption	Powerful data security.
802.11i Security specifications Advanced Encryption Standard (AES) IEEE802.1x Client support	Enhances authentication and security.
Dynamic Frequency Selection (DFS) support	Provides flexible selection of the best frequency to allow mobility among all existing IEEE802.11b/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)	802.11g : 6, 9, 12, 18, 24, 36, 48 , 54, 72, 96 & 108 (Super G) Mbps. 802.11b : 1, 2, 5.5, 11Mbps.
Network Standards	WECA (Wi-Fi & Wi-Fi5 compliance), IEEE802.11, IEEE802.11g, IEEE802.11b, draft IEEE 802.11e, f, h, and i standards, IEEE802.11x
Compliance	FCC Part 15 Class B / UL, ETSI 300/328/CE
Drivers	Windows 98/ME/2000/XP
Operational voltage	3.3 V
Security	<ul style="list-style-type: none">IEEE802.1x Support for LEAP/PEAPWPA - Wi-Fi Protected Access (AES, 64,128,152-WEP with shared Key Authentication)

	<ul style="list-style-type: none"> AES (Advance Encryption Security) Support
RF Information	
Frequency Band	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	802.11g : OFDM (64-QAM, 16-QAM, QPSK, BPSK) 802.11b : DSSS (DBPSK, DQPSK, CCK)
Receive Sensitivity	802.11g : -90dBm @ 6Mbps -83dBm @ 24Mbps -89dBm @ 9Mbps -80dBm @ 36Mbps -88dBm @ 12Mbps -75dBm @ 48Mbps -87dBm @ 18Mbps -72dBm @ 54Mbps 802.11b : -93dBm @ 1Mbps -91dBm @ 5.5Mbps -92dBm @ 2Mbps -89dBm @ 11Mbps
Transmit Output Power (Typical)	802.11g : 20dBm +/-2dBm @ 6~24Mbps 18dBm +/-2dBm @ 48 Mbps 19dBm +/-2dBm @ 36 Mbps 17dBm +/-2dBm @ 54 Mbps 802.11b : 20dBm +/-2dBm for all rates
Physical	
Interface	Mini PCI Type 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 2004/4/15

All specifications are subject to change without notice.