

ASUS SpaceLink  
Wireless LAN Mini-PCI Card  
WL-120  
IEEE 802.11b 11 Mbps

## [features]

- Embedded to any notebook with mPCI type IIIA slot
- Seamless roaming between home, office and café shop with profiles auto-switch
- Online trouble shooting tool eliminate any confusions during enjoy your wireless networking
- Site survey tool to ease the wireless networking topology optimization
- Secure 40/128-bit WEP with periodically change keys
- Comply to Windows XP WLAN support functions

## [Specifications]

Host interface	32-bit Mini-PCI interface, type IIIA, 3.3V only
Network Standard	IEEE 802.11b
Data Rate	11 Mbps with automatic fallback to 5.5, 2 and 1 Mbps ; CH14 : 2 & 1 Mbps .
Modulation	CCK (11Mbps, 5.5Mbps), DQPSK (2Mbps), DBPSK (1Mbps)
Technology	Direct Sequence Spread Spectrum
Network Architecture Types	Infrastructure and ad-hoc
Operating Frequency	2.412-2.462 GHz (N. America); 2.412-2.484 GHz (Japan); 2.412-2.472 GHz (Europe ETSI); 2.457-2.462 GHz (Spain); 2.457-2.472 GHz (France)
Operating Channels	CH1~CH13 for Worldwide, CH1~CH14 Japan,Thailand, CH5~CH7 Israel , CH10~CH13 Jordan ,
RF Output Power	14 ~ 17 dBm ; Channel 14 : 12.5~15dBm. (at nominal temp. range)
Antenna connectors	There are two antenna connector, mark as MAIN and AUX. Transmission through MAIN antenna, and support receiving diversity through both antenna. The antenna ports is 50 ohms nominal impedance, with a VSWR of 1.5:1 maximum in the frequency band of interest
Range	Indoor 100 ft (30 m), semi-open 200 ft (60 m), outdoor (LOS, Light-Of-Sight) 600 ft (180 m) at 11Mbps The range may vary by different environment
Receiver Sensitivity	PER< 8% @ length=1024 octets (at nominal temp. range) 11Mbps: -82 ~ -85 dBm; 5.5Mbps: -85 ~ -88 dBm;

	2 Mbps: -88 ~ -91 dBm; 1 Mbps: -91 ~ -93 dBm
<b>Power Consumption</b>	TX power consumption:350~450 mA RX power consumption :250~350 mA
<b>WEP</b>	40/128-bit WEP; each includes 4 user-defined keys; periodically change key to maximize security
<b>Utilities</b>	<b>Mobile control center:</b> Integrate all tools and indicate real time status information on system tray <b>Wireless setting:</b> Diagnose and configure your wireless network settings with on-line trouble shooting feature. <b>Mobile manager:</b> Support automatic roaming and network reconfiguration between different locations <b>Site survey:</b> Explore your wireless networking topology through a handy way <b>Live Update:</b> Download the newest driver and utilities from Internet
<b>Windows XP Compatibility</b>	Native support for all built-in WLAN functions, like Zeroconfig, Media Sense and 802.1x
<b>Support OS</b>	Windows 98, ME, 2000, NT 4, XP, CE 3.0, Pocket PC 2002 and Linux
<b>LED Indicators</b>	<p><b>1. WLAN Activity Indicator</b></p> <p>The <b>LED_WLAN_Activity</b> output signal from Pin11 of the MPCPI system connector is named LED_WLAN_ACTIVITY. This pin will provide a 7mA source current for 3.3V LED operation. The operation of the LED is:</p> <p>ON (3.3V) = There is WLAN activity ongoing (packets are being sent or received), AND the card is already associated. If the card is not associated, this LED will remain OFF. It is required that this LED will flash in accordance with the activity such that higher levels of activity result in the LED being ON longer.</p> <p>OFF (low) = The WLAN card is not associated. If it is associated, then the LED remains OFF while there is no WLAN activity ongoing.</p> <p><b>2. WLAN Radio State Indicator</b></p> <p>The <b>LED_WLAN_RadioState</b> output signal from Pin12 of the MPCPI system connector is named LED_WLAN_RADIO_ON. This signal will reflect the actual state of the radio, and not the state of a user setting, software, switch or anything else. This pin will provide a 7mA source current for 3.3V LED operation.</p> <p>ON (3.3V) = The WLAN radio is on, and is <u>capable</u> of transmitting. The LED is ON even if the radio is not actually transmitting. If the card has a way of independently turning off the transmit section, then this LED is ON when the transmitter section is in any state that is capable of transmitting.</p> <p>OFF (low) = The WLAN radio is NOT capable of transmitting unless the user performs some action to change the state of the radio.</p>

Operating Temperature	-10 ~ 55℃
Storage Temperature	-40~ 70℃
Humidity (non-condensing)	5~95%
Emissions	ETS 300 328 and ETS 300 826; CE Mark; FCC Part 15C, Section 15.247
Size	60 mm L * 50.1 mm W* 2.5 mm H(± 0.2)
Weight	10 g

[Pictures]

MPCI Antenna Connector Placement

