

2.4GHz/5GHz

802.11a/b/g

54 Mbps

NMP-8602 PLUS-S is a mini-PCI type III B High-Power card supporting dual-band (2.4GHz & 5GHz) radio operation. It provides high-speed wireless connection with data rate up to 54Mbps. The shirking dimension and light weight can easily integrate into a wide range of AP/Bridge device.

The 802.11g standard is backwards compatible with 802.11b products. This means that you do not need to change your entire network to maintain connectivity. You may sacrifice some of 802.11g speed when you mix 802.11b and 802.11g devices, but you will not lose the ability to communicate when you incorporate the 802.11g standard into your 802.11b network



Features	Benefits
High Speed Data Rate up to 54Mbps	Capable of handling heavy data payloads such as MPEG video streaming
High Output Power up to 28dBm in 11b/g mode, 22dBm in 11a mode	More high power can advance the distance.
<b>Advanced Power Management</b>	Low power consumption in power saving mode.

\*\*\* Subject to change without prior notice

2.4GHz/5GHz

802.11a/b/g

54 Mbps

### Technical specification

#### Data Rates

**802.11a:** 6, 9, 12, 18, 24, 36, 48, 54Mbps

**802.11g:** 6, 9, 12, 18, 24, 36, 48, 54Mbps

**802.11b:** 1, 2, 5.5, 11Mbps

#### Standards / Compliance

WECA (Wi-Fi & Wi-Fi5 compliance), IEEE802.11, IEEE802.11a, IEEE802.11g, IEEE802.11b

#### Regulation Certifications

FCC Part 15/UL

#### Operating Voltage

3.3V±0.15V

#### Current consumption

Tx Current ≤ 1A

Rx Current ≤ 400mA

Card on Current ≤ 400mA

Sleep Current ≤ 100mA

#### RF Information

##### Frequency Band

**802.11a:**  
5.15~5.35GHz,  
5.47~5.725GHz, 5.725~5.825GHz

##### 802.11b/g:

U.S., Europe and Japan product covering 2.4 to 2.484 GHz, programmable for different country regulations

#### Modulation Technology

**802.11a/g:**  
OFDM (64-QAM, 16-QAM, QPSK, BPSK)

**802.11b:**  
DSSS (DBPSK, DQPSK, CCK)

#### Operating Channels

##### 802.11b/g

11 for North America, 14 for Japan, 13 for Europe

##### 802.11a

US/Canada:12 non-overlapping

channel (5.15~5.35GHz,  
5.725~5.825GHz)

Europe:19 non-overlapping

channel (5.15~5.35GHz,  
5.47~5.825GHz)

Japan:4 non-overlapping

channel (5.15~5.25GHz)

China:5 non-overlapping

channel (5.725~5.85GHz)

#### Receive Sensitivity (Typical)

**802.11a:**  
-90dBm @ 6Mbps,  
-72dBm @ 54Mbps

**802.11g:**  
-91 dBm @ 6Mbps,  
-74 dBm @ 54Mbps

**802.11b:**  
-95 dBm @ 1Mbps  
-90 dBm @ 11Mbps

#### Available Transmit Power (Typical)

• 4920~5108 GHz & 5.150~5.250 GHz(IEEE802.11a)

22dBm @6 ~ 24Mbps

20dBm @36Mbps

18dBm @48Mbps

17dBm @54Mbps

• 5.250~5.350GHz(IEEE802.11a)

20dBm @6 ~ 24Mbps

18dBm @36Mbps

16dBm @48Mbps

15dBm @54Mbps

• 5.470~5.725GHz(IEEE802.11a)

21dBm @6 ~ 24Mbps

19dBm @36Mbps

17dBm @48Mbps

16dBm @54Mbps

• 5.745~5.85GHz (IEEE802.11a)

20dBm @6 ~ 24Mbps

18dBm @36Mbps

16dBm @48Mbps

15dBm @54Mbps

• 2.412~2.472G(IEEE802.11g)

27dBm @6 ~ 24Mbps

25dBm @36Mbps

24 dBm @48Mbps

23dBm @54Mbps

• 2.412~2.472G(IEEE802.11b)

28dBm. @1, 2, 5.5 and 11Mbps

#### RF Connector

Two antenna connectors (U.FL)

#### Form Factor

Mini-PCI type III B

#### Dimensions (LxWxH)

59.60mm X 44.45mm Weight

15g (0.53 oz)

#### Environmental

##### Temperature Range

Operating: -40°C to 85°C

Storage: -45°C to 90°C

##### Humidity (non-condensing)

5% ~ 95% typical

\*\*\* Subject to change without prior notice

EnGenius Networks Singapore Pte Ltd

215 Henderson Road #01-04 Henderson Industrial Park Singapore 159554

Tel: +65-62271088 Fax: +65-62272766

Website: [www.engeniustech.com.sg](http://www.engeniustech.com.sg) Email: [inquiry@engeniustech.com.sg](mailto:inquiry@engeniustech.com.sg)