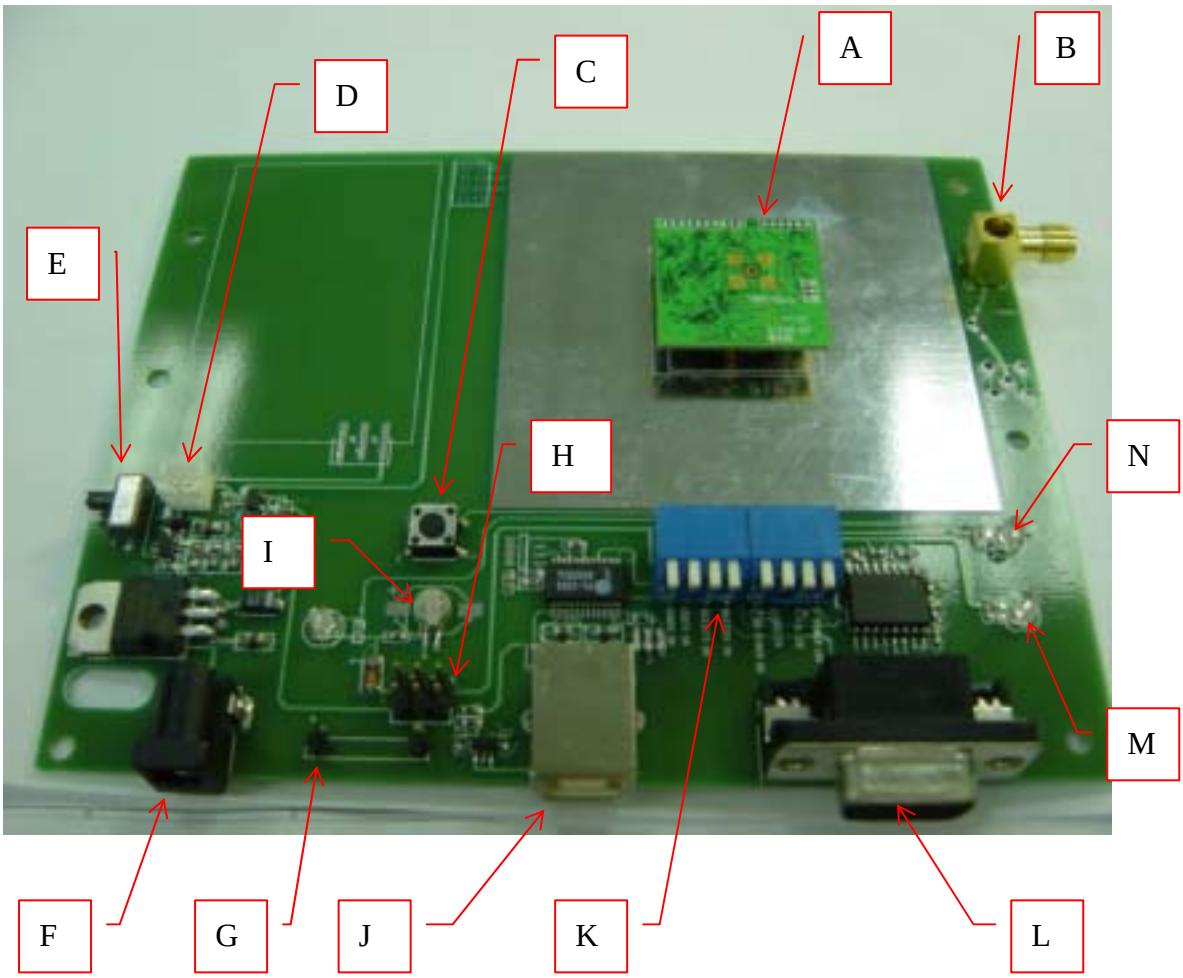
NEM-164125 EV BOARD



NEM-164125 EV Board TOP View

A: NEM-164125 Socket

On **NEM-164125** module socket, there are 10 pin, 6 pin, and 3 pin 1.27 mm board to board connector.

B: Antenna Connector

External antenna connect, MMCX or SMA type.

C: Reset Key

Press the key to reset NEM-164125 module.

D: Battery Connector

This EV Board includes an on board battery charge circuit which uses 3.6V rechargeable lithium or NIMH battery.

E: Battery Power Switch

This switch turns the power of the 3.6V rechargeable lithium or NIMH battery on and off.

F: DC Power Jack

This EV Board has a build-in DC 5V regulator to plug in DC 7 ~ 9V voltage source input from AC adaptor.

G: DC Power Input Connector

The EV Board can input DC 3~3.3V voltage direct; to input voltage from power supply use clamp to clip the connector,

H: DC Power Source Select Jumper

The EV Board has three different type of DC voltage sources; "**Adaptor & Battery**", "**DC Power Input Connector**", and "**DC 3.3V from USB interface**". This jumper allows you to switch among these DC sources input.

I: Backup Battery

The EV Board includes an on board 3V Manganese Lithium coin backup battery.

J: USB B Type Jack

The EV Board includes an on board USB 1.1 interface circuit linking to PC, notebook PC or other serial port devices.

K: Mode Select Switches

There are eight selective functions on the EV Board:

1. *Power LED Switch*

   When the switch is off, the "**Power LED**" function is cancelled.
   When the switch is on, the "**Power LED**" is in normal mode.

2. *Fix LED Switch*

   When this switch is off, the "**GPS State LED**" function is cancelled.
   When this switch is on, the "**GPS State LED**" is in normal mode.

3. *DSU EN Switch*

   When this switch is on, the ZX4125 module goes into Debug mode.
   You can set utility in the ZX4125 module via USB port or serial port in this mode.

The other way around, if this switch is being turned off, ZX4125 module will go in normal mode.

4. *RS Power Switch*

When this switch is off, the on board serial port interface circuit will be inactive; if this switch is turn on, the circuit will be activated.

5. *RS232RX Switch*

When this switch is off, the NMEA extension from serial port will be inactive, and the ZX4125 will not receive the NMEA extension; if this switch is turned on; the NMEA extension from serial port will be activated.

6. *RS232TX Switch*

When this switch is off, the NMEA data from ZX4125 module will be inactive, and the serial port interface circuit will not receive the NMEA data; if this switch is on; the NMEA data from ZX4125 will be activated.

7. *USBTX Switch*

When this switch is off, the NMEA extension from USB port will be inactive, and ZX4125 will not receive the NMEA extension; if this switch is turned on, the NMEA extension from USB port will be activated.

8. *USBRX Switch*

When this switch is off, the NMEA data from ZX4125 module will be inactive, and USB port interface circuit will not receive the NMEA data; if this switch is being turned on; the NMEA data from ZX4125 will be activated.

L: Serial Port DB9 Female Connector

This EV Board includes an on board serial port interface circuit linking to PC, notebook PC or other serial port devices.

M: Power LED

This LED indicates power state. A solid LED light signals that ZX4125 Module is in power mode.

N: GPS State LED

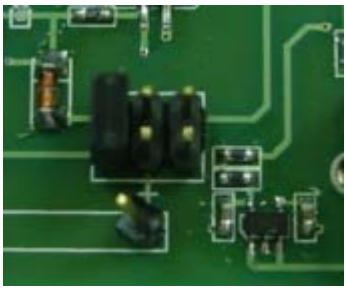
This LED indicates GPS state. A flashing LED light signals that ZX4125 module is in working mode.

Power Source Selections:

There are three types of DC 3.3 V power selections on the EV Board. Selection may be made by using “DC power source selection jumper” to switch from one to the other power source.

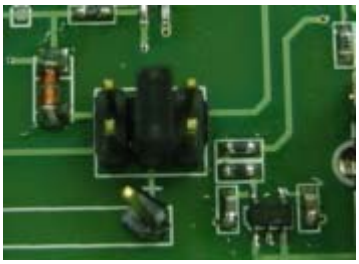
Adaptor & Battery

Through build-in circuit, DC7-12V power from “DC power jacket”, or DC3.7-4.2 V from The battery, can be converted to DC 3.3V.



DC Power Input Connector

Connect “DC Power Input Connector” to the board to gain DC3.3V power supply direct.



DC 3.3V from USB interface

The in-built circuit will convert the DC 5V power by USB port to DC 3.3V power supply.