

EKM iSerial

RS232/RS485 to TCP/IP Converter Module

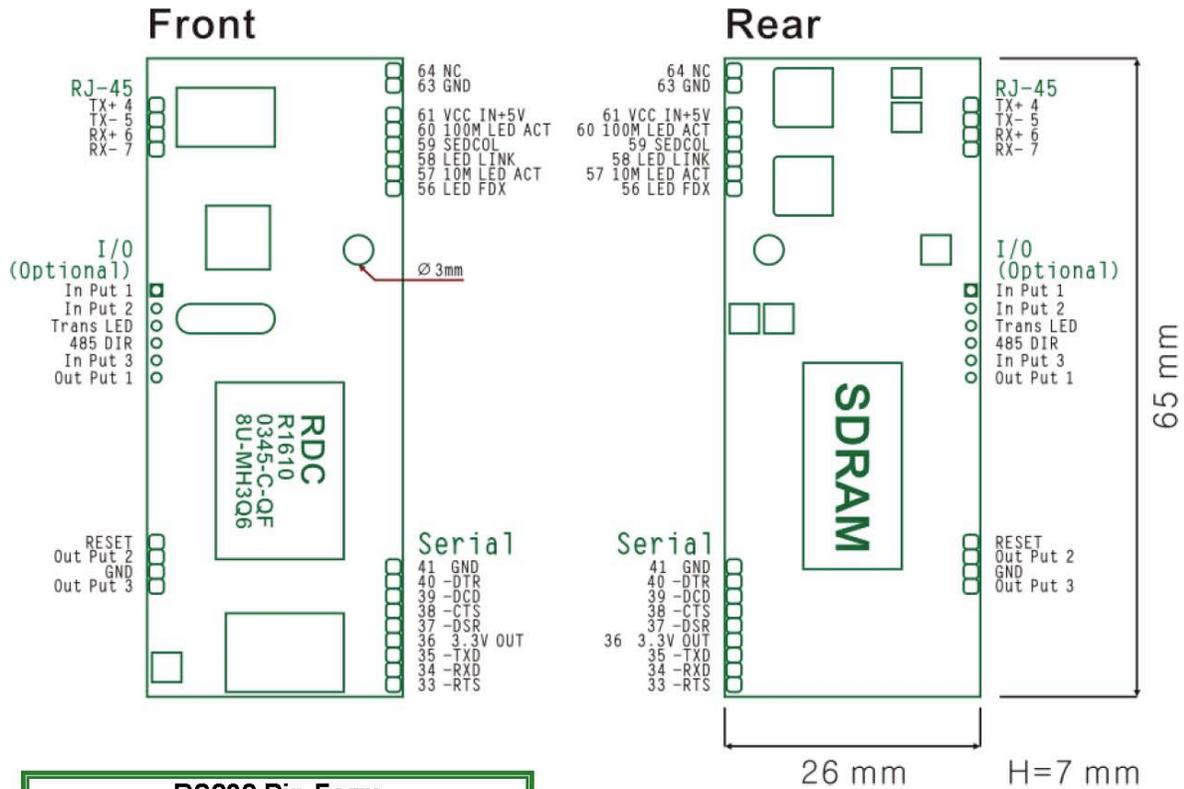
Quick Start Guide

2007

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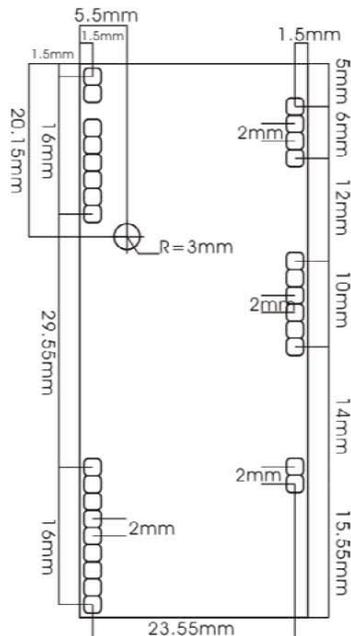
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1. Hardware Installation



RS232 Pin Form		
Pin	Acronym	Sense
Pin 1	CD	Carrier Detect
Pin 2	RXD	Receive
Pin 3	TXD	Transmit
Pin 4	DTR	Data Terminal Ready
Pin 5	GND	Ground
Pin 6	DSR	Data Set Ready
Pin 7	RTS	Request to Send
Pin 8	CTS	Clear to Send
Pin 9	RI	Ring Indicator

Mechanical Dimensions (mm) :



2. For Windows 98 and Millennium

On the “**Configuration**” tab (if using **Windows 98 and Millennium PCs**), select the **TCP/IP** line for the applicable Ethernet adapter. Do not choose a TCP/IP entry whose name mentions PPPoE, VPN. If the word **TCP/IP** appears by itself, select that line. Click the **Properties** button.

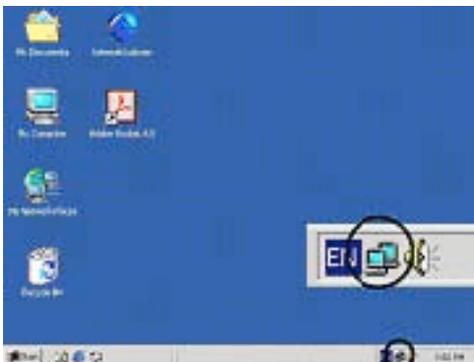


Important:

For Windows 2000 & Windows XP Setting, you will find that they differ with Windows 98/ME/NT slightly. See the following for reference.

For Windows XP and Windows 2000

Click the “**Local Area Connection**” icon on the lower right hand side of your desktop screen.



In the **“Local Area Connection Status”** window, click the **“Properties”** button then your Network window will appear.



There are two tabs, **“General”** and **“Support”**, in the Network window.

3. Check whether the TCP/IP Protocol has already been installed onto your computer’s Ethernet card. Note that TCP/IP Protocol can be installed for a computer’s Dial-Up Adapter as well as for the Ethernet card.

If yes, go to section 2.2.

If no, click the **“Install”** button.

4. Double-click **“Protocol”** in the Select Network Component Type or highlight **“Protocol”** then click **“Add”**.



5. Highlight **“Microsoft”** under the list of manufacturers. Double-click **“TCP/IP”** from the list on the right or highlight **“TCP/IP”** then click **“OK”** to install TCP/IP.



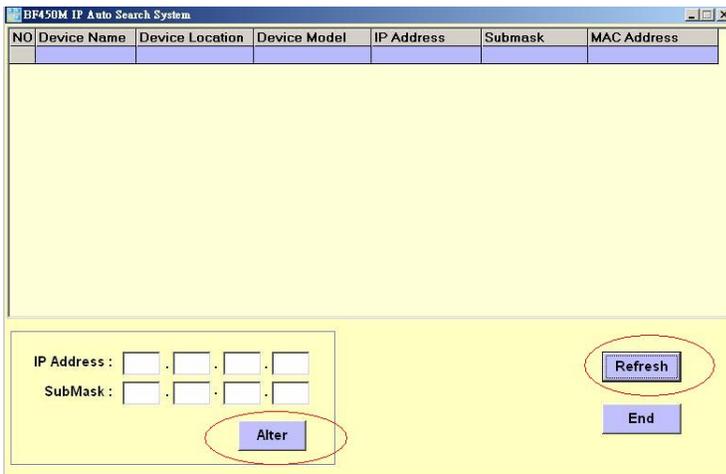
6. After a few seconds, you will be returned to the Network window. The TCP/IP Protocol should now be on the list of installed network components (see 3 above).

2.2 Using IP Search Utility to set the **EKM** iSerial IP Addresses

Install IP Search utility on your computer and execute **ipsearch.exe**.

Clicks **Refresh** to find the IP address of your iSerial.

If the current setting of IP address is not in same sub network with yours, then you can change the iSerial IP address and Subnet Mask by click **Alter**.



2.3 Fixed IP Addresses Configuration

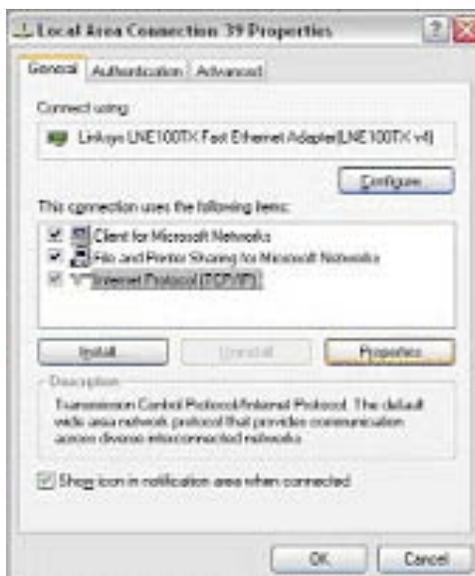
For Windows 98 and Millennium

1. To set up computers with fixed IP Addresses, click the **“Properties”** button. The TCP/IP Properties window consists of several tabs. Choose the **“IP Address”** tab as shown below.
2. Select **“Specify an IP address”** and enter **“192.168.1.xxx”** (the default value of the iSerial is 192.168.1.125) in the **“IP Address”** location (where xxx is a number between 1 and 254 used by the High-Performance **EKM iSerial** to identify each computer), and the default **“Subnet Mask” “255.255.255.0”**. Note that no two computers on the same LAN can have the same IP address.

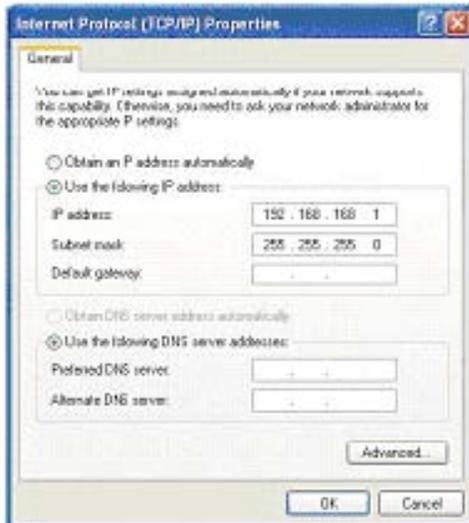


For Windows XP and Windows 2000

1. Make sure the box next to Internet Protocol (TCP/IP) is checked. Highlight **Internet Protocol (TCP/IP)**, and click the **Properties** button



2. Select **“Specify an IP address”** and enter **“192.168.1.xxx”** (the default value of the iSerial is **192.168.1.125**) in the **“IP Address”** location (where xxx is a number between 1 and 254 used by the High-Performance **EKM iSerial** to identify each computer), and the default **“Subnet Mask” “255.255.255.0”**. Note that no two computers on the same LAN can have the same IP address.



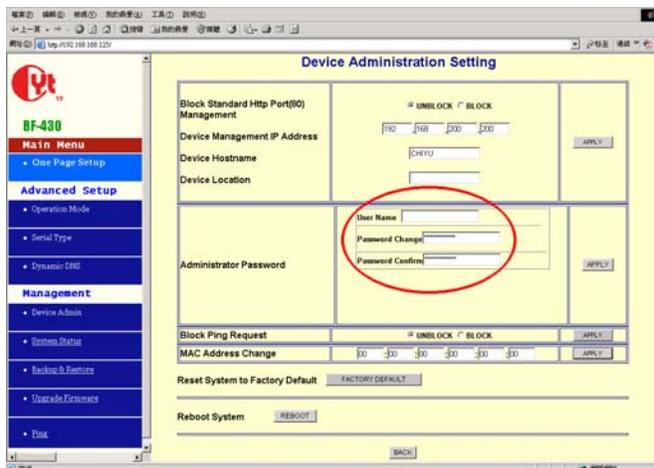
Click **“OK”**. to complete the TCP/IP installation.

3. Configure your EKM iSerial

1. Open your web browser and type <http://192.168.1.125> in the browser's *address box*. This address is the factory set IP Address of your EKM iSerial. Press "Enter".
2. The "Username and Password required" prompt box will appear. Typing "admin" (default username) in the Username field and typing "admin" (default password) in the Password field. Click "OK". The setup screen will then appear.



3. It is highly recommended that you change the default username and password when you login successfully the first time.



4. To change the administration TCP port from the standard port 80, click the "Device Admin" button in the left-column, click the "Block" radio button, enter the desired port number, and click "Apply". This port number will have to be opened through any firewall if administration from outside the LAN is desired, and this port number will need to be added after a colon to any local IP address when contacting the iSerial for administration. Thus, if you set an administration port number of 7373, and the IP address of the iSerial is 192.168.1.125, to administer the iSerial, type "192.168.1.125:7373" in the address field of your web browser.

Troubleshooting

Problem	Corrective Action
None of the LEDs turn on when you turn on the iSerial	<p>Make sure that you have correct power connected to the iSerial, and plugged into an appropriate power source. Check all cables and connections.</p> <p>If LEDs still do not turn on, you may have a hardware problem. Contact your vendor.</p>
Cannot access the iSerial	Check cable connections between the iSerial and your computer or hub. Ping the iSerial from your computer. Make sure your Ethernet network is working properly.
Cannot ping any computer on the LAN	<p>If the 10/100 LED is off, check the cable connection between the iSerial and your computer.</p> <p>Verify that the IP address and the subnet mask of the iSerial and computer are in the same IP address range.</p>
Cannot access the iSerial from a serial device	<p>Check the serial cable connection between iSerial and your serial device.</p> <p>Verify that the iSerial setting of Serial Type is the same as your serial device, and make sure the RS-232///RS-485 switch is in the correct position.</p>

Appendix A. **EKM iSerial** Default Value Settings

Serial Working Mode	Default Value
Acting Role	TCP Server
Listen Port Number	50000
Idle Timeout to Close Connection	300 Seconds
Access Password	Null
IP Configuration	Default Value
IP Mode	Static IP
IP Address	192.168.1.125
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
Primary DNS	168.95.1.1
Serial Configuration	Default Value
Serial Type	RS-232
Baud Rate	115200
Parity Check	None
Data Bits	8
Stop Bits	1
Flow Control	None
Force Transmission Time	40ms
Dynamic DNS	Default Value
DDNS Service	Disabled
Device Administration	Default Value
Block HTTP Standard Port 80	Unblock
Manage IP Address	192.168.200.200
Device Name	EKM-iSerial
Device Location	Null
Login Username	"admin"
Login Password	"admin"
Block Ping Request	Unblock
Diagnostic Ping	Default Value
Ping Packet Numbers	4
Ping Packet Length	60 Bytes