What You Have and What You Need
With your 4i Edge box you receive:
• 4i Edge 515
• 5 pin terminal block for digital I/O
• 2x 2 pin terminal block for power input

To install your 4i Edge 515 and protect your network you need:
• 24V DC power socket
• Ethernet switch (connected to your network)
• DIN rails
• Maximum surrounding air temperature 70 °C

Hardware Installation
1. Place your 4i Edge 515 on a steady surface or attach it to the DIN rail
2. Connect Ethernet port 1 of your 4i Edge 515 to your switch using a standard patch cable (or a crossover patch cable for a direct connection to the Ethernet interface of your PC)

Warning! The default IP address of the unit’s GREEN interface is 192.168.0.15. Make sure there is no other machine with this address in your network; should you have such a machine, turn it off or disconnect it from the switch during the installation and initial configuration of the unit.

3. Connect the DC power socket to the unit, which has two sets of power inputs – power input 1 and power input 2. The front view of one of the terminal block connectors is shown here.

Terminal Block: 105°C suitable for 12-30AWG wire size, torque value 5-7 lb-in.

Web Interface
1. Configure your PC Ethernet interface with an IP address belonging to the 192.168.0.0/24 subnet that is different from 192.168.0.15 (Endian IP address)
2. Open your Internet browser (e.g. Mozilla Firefox) and go to address 192.168.0.15
   • The system will redirect you to https://192.168.0.15:10443/ and ask you for your preferred language and your time zone. After that you need to accept the license agreement.
   • The system will now ask you to choose 2 passwords (admin for web interface and root for console).

Network Settings
1. Every network “area” is assigned to a color:
   • GREEN local network (LAN). This is the safe area where your trusted computers are.
   • RED external network (WAN). Usually this is the interface connected to the Internet.
   • BLUE wireless network. It is suggested to place the computers that use wireless connections in this area. This kind of network is usually not as safe as a wired one.
   • ORANGE network for servers connected to the Internet (DMZ). It is meant for systems that have to provide services to external networks. This way, even if the security of one of these servers has been compromised, the GREEN area will remain safe.

2. You can configure the appliance’s Ethernet ports to your liking by assigning them to the respective zones. Follow all the wizard steps to configure the appliance and protect your network.

Choose Your Internet Connection Mode
Now it is time to configure your Internet connection:
1. Choose your network mode
   • Routed: if you want to use the appliance as router in your network
   • Bridged: if you want your appliance to act transparently without having to change the existing network infrastructure
   • No uplink: if the appliance should not act as a router but require clients to address it directly
2. When choosing routed mode the uplink type must be specified:
   • Ethernet static
   • Ethernet DHCP
   • PPPoE
   • Analog/UMTS modem

This is how the Ethernet ports are mapped to device names in the setup wizard:

<table>
<thead>
<tr>
<th>Ethernet port</th>
<th>Wizard device name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethernet 1</td>
<td>lan1</td>
</tr>
<tr>
<td>Ethernet 2</td>
<td>lan2</td>
</tr>
<tr>
<td>Ethernet 3</td>
<td>lan3</td>
</tr>
<tr>
<td>Ethernet 4</td>
<td>lan4</td>
</tr>
<tr>
<td>WAN</td>
<td>eth1</td>
</tr>
</tbody>
</table>
Endian Network Account
To activate your Endian Network subscription and keep your appliance always up-to-date with the latest features and security updates follow these steps:

A. You already have an Endian Network account
   1. When the system asks you if you have an Endian Network account choose “yes” and go to the next step.
   2. Now fill in the form using your data and the activation code on the back of this page.

B. You do not have an Endian Network account
   1. When the system asks you if you have an Endian Network account choose “no” and go to the next step.
   2. Click on the “Endian Network account” link and insert the activation code on the back of this page.
   3. Fill in the registration form and create your account.
   4. Close the registration window and go to the next step.
   5. Now fill in the form using your data and the activation code.

Your Endian appliance is now ready!

Mapping Table for Reference

### COM Port

<table>
<thead>
<tr>
<th>Pin</th>
<th>RS232</th>
<th>RS485</th>
<th>RS422</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>-</td>
<td>A-</td>
<td>TX-</td>
</tr>
<tr>
<td>2</td>
<td>RXD</td>
<td>A+</td>
<td>TX+</td>
</tr>
<tr>
<td>3</td>
<td>TXD</td>
<td>-</td>
<td>RX+</td>
</tr>
<tr>
<td>4</td>
<td>-</td>
<td>GND</td>
<td>GND</td>
</tr>
<tr>
<td>5</td>
<td>GND</td>
<td>GND</td>
<td>GND</td>
</tr>
<tr>
<td>6</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>7</td>
<td>RTS</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8</td>
<td>CTS</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>9</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### Digital I/O

<table>
<thead>
<tr>
<th>Pin</th>
<th>REF</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>DO_GND</td>
<td>Output digital signal (0V ground) connected to the emitter of the transistor</td>
</tr>
<tr>
<td>2</td>
<td>DO</td>
<td>Output digital signal connected to the drain of the MOSFET transistor</td>
</tr>
<tr>
<td>3</td>
<td>DO_VDC</td>
<td>Common of the exothermal predrive power supply (between +12 +24 VDC)</td>
</tr>
<tr>
<td>4</td>
<td>DI_GND</td>
<td>Ground of the input (isolated)</td>
</tr>
<tr>
<td>5</td>
<td>DI</td>
<td>Input digital signal</td>
</tr>
</tbody>
</table>

**DIN-Rail Mounting**
The metal DIN-rail kit is fixed to the rear panel of the 4i Edge 515. After opening the product box, mount the 4i Edge 515 on corrosion-free mounting rails that meet the EN 60715 standard.

**Installation**
Step 1: Insert the upper lip of the DIN-rail into the DIN-rail mounting kit.
Step 2: Press the 4i Edge 515 toward the DIN-rail until it snaps into place.

**Removal**
Step 1: Gently pushed up from the bottom of the 4i Edge 515.
Step 2: Slightly pull the 4i Edge 515 forward and lift up to remove from the DIN-rail.