KE2-EM35
Edge Manager

12 Chamber Drive . Washington, MO. 63090 ▪ ke2connect.io ▪ 636.266.0140

Hardware:

- EM-35 Router
- Micro USB Power Cable

LED Indicators

Antenna:
RP-SMA Bulkhead

WAN LAN

RS485
Serial/ModBus
Connection

Ethernet Ports

Restart/Factory Reset

Power

USB 2.0
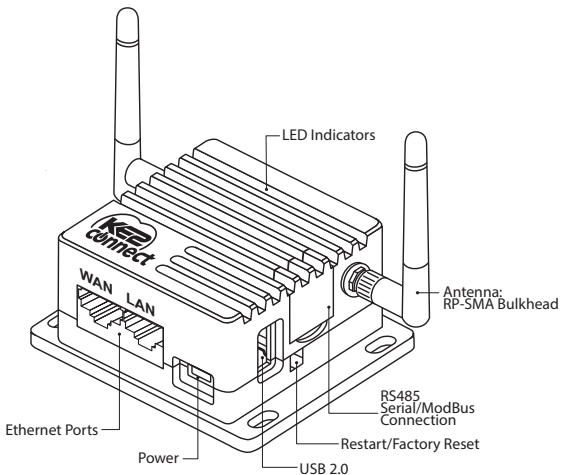
Restart/Factory Reset:

- Press & hold for **3 seconds**, then release to **Restart** the KE2-EM35.

- Press & hold for **10 seconds** to **Reset to Factory Defaults.**

Restart/Factory Reset
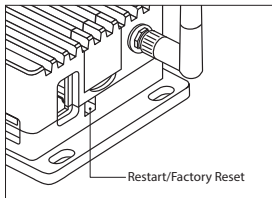
Specifications:

CPU	650 MHz
Memory Storage	16MB Nor + 128MB Nand Dual Flash
Frequency	2.4 GHz
Transmission Rate	144 Mbps
Max Tx Power	18 dBm
Protocol	802.11 b/g/n
WAN/LAN	10/100
Power Input	5V / 1A
Power Consumption	<2W
Dimension	3.15 x 2.5 x 1.5 Inches/80 x 64 x 25 mm
Working Temperature	32°F - 122°F / 0°C - 50°C

Connect:

1 **Plug in the power cable & the Internet cable.**

- When powered up, your KE2-EM35 will broadcast a WiFi signal with the SSID: **KE2EDGE-xxxxxx**

- Plug the **Internet cable** (data only) into **WAN**.

The Internet connects to WAN
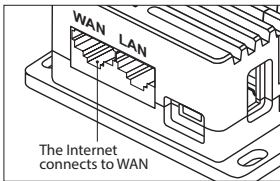
2 **Connect via WiFi.**   - or -

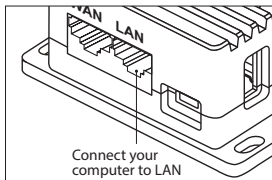- The default WiFi password is printed on the bottom of the KE2-EM35

WiFi**: KE2EDGE-xxxxxx**
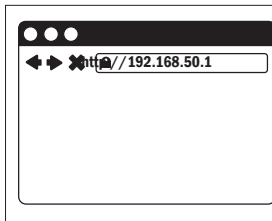
- Search the SSID and connect to it.

WiFi PW: • • • • • • •

2 **Connect via LAN.**

- Plug the cable connecting your computer into LAN.

Connect your computer to LAN

❸ Setting up the KE2-EM35.

- Visit http://192.168.50.1 in
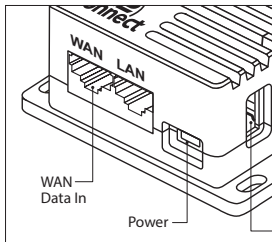 your browser, to set up your
  KE2-EM35.

Internet Connection:

- After you have plugged in
  your KE2-EM35 to the WAN,
  you will see the main web
  interface.

- **DHCP/Static**
  The default protocol is DHCP.
  If your network needs a static
  setting, you can change it to
  Static later, via the System
  Console.

WAN
Data In

Power

Access the Local Dashboard:

▪ To access the KE2-EM35, connect to the same network as the device. Since it is an Ethernet device, speaking TCP/IP, users can connect to it by simply launching their preferred web browser, and typing in the address bar: http://em35 -or- http://192.168.50.1. This brings the user to their local dashboard.

The Local Dashboard:

▪ Once connected to the dashboard, the user will immediately see up to 35 devices displayed.

▪ **Device Access**
For controllers on the network, simply click the IP address of the controller, to immediately connect to that controller's home page.

▪ **Access the Management Console**
To access the Management Console, select the Manage button in the upper right corner of the dashboard screen.

KE2-EM35 M...
Address & Firmw...

KE2 connect

Access to
Management
Console, where
setup changes are
made

s ⇕	Location ⇕	Mode ⇕	Temp ⇕	Alarm ⇕	Log
F:A0:18:C0	(Set Location)	Monitor	72.64 F	All Clear	⬇
F:A0:18:DF	jills office	Monitor	72.54 F	All Clear	⬇
		Monitor	75.20 F	All Clear	
4:38:87:47	(Set Location)				
5:70:B6:45	(Set Location)				
F:A0:18:DA	(Set Location)				
A:C1:56:62	(Set Location)				
7:65:0E:4A	(Set Location)				
40	KE2 Labs	Off	71.1 F	All Clear	⬇

Displays
active alarms

Download to
CSV file

Up to 35
devices are
automatically
displayed
on the
dashboard

⬇ Log   ×

KE2 Lab Two Door
BLE-E3-03-DC-E4-01-97

When log
button selected,
user prompted
for date range.

From optional   mm/dd/yyyy

To optional   mm/dd/yyyy

Close   Graph   Save

Management
ware Version

http://10.1.0.204:80
http://192.168.50.1:80
Version   1-29-2017

Management Console:

- A User Name and Password are required when accessing the Management Console. When logged in to the Management page, users can make changes to the following settings: Customize Portal, Alarm Notifications, Data Logging & System Updates. A detailed look at each of these follows.

- **Login Screen**

Authentication required

http://192.168.50.1
Your connection to this site is not private

Username

Password

[Log in] [Cancel]

Global selection - Enable setting for all devices

Alarm Notifications Enabled

Device displayed on Dashboard

Published to KE2 portal

Data Logging Enabled

Alarm Notifications **NOT** Enabled

Device **NOT** displayed on Dashboard

NOT Published to KE2 portal

Data Logging **NOT** Enabled

Devices

ET0   BRLA   CSN

Scan

Activate Services

Type

IPC

IPC

IPC

BLE

BLE

BLE

IPC

IPC

Customize your portal

Setup alarm notifications

Data logging setup

System updates

KE2 connect

Dashboard 🖥 ?

☑ Allow vendor assistance ——— Allow KE2 to manage/configure EM35 and all devices remotely

☐ Show client services ——— Access KE2- EM35 (with valid subscription) from Portal

☑ Show only KE2 services ——— Automatically discover and display ONLY KE2 devices

Address	Host	Description	Domain
0.1.0.40	00:04:A3:50:AA:07	KE2 Labs	D320AN
0.1.0.11	54:10:EC:4B:8B:6D	Test Unit KE2 Therm	...
0.1.0.121	00:04:A3:14:91:A5	(Set Location)	...
C:23:3F:A0:18:C0	BLE:AC:23:3F:A0:18:C0	...	IKN1QV
C:23:3F:A0:18:DF	BLE:AC:23:3F:A0:18:DF	(Set Location)	...
C:23:3F:A0:18:DA	BLE:AC:23:3F:A0:18:DA	...	...
0.1.0.142	E4:95:6E:4C:E1:29	CFR 10.1.0.142	...
0.1.0.146	00:04:A3:50:A1:AF	OZ R594	...

Management Console will display all* of the KE2 devices connected to the Network directly or through the KE2-EM35s.

While theoretically unlimited, performance speed will vary based on the number of connections / devices.

Tested to 50 devices without noticeable loss of speed

Management Console Features:

Devices

Access

- Devices — Discovered KE2 devices

- Access — Setup or change the Portal Site name and Password

- Alerts — Enter e-mail or text addresses for notifications & preferred "Subject" line *(If multiple addresses are entered, use a comma to seperate each address)*

- Logs — Establish the frequency that data points are logged

- System — Updates & advanced configurations

Logs

System

Alerts

☑ Allow vendor assistance
☐ Show client services
☑ Show only KE2 services

Endpoint	Host	Description	Domain
0.1.0.40	00:04:A3:50:AA:07	KE2 Labs	...

		Site	Pass
	☐	KE2EDGE-5113CA	....

	From	Subject
	ke2connect-alarms@ke2connect.io	Enterprise Edge Manager Alarm

	Username	Password
	KE2EDGE-4643EC	....

- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

- Changes or modifications not expressly approved by KE2 Connect could void the user's authority to operate the equipment.

- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
    - Reorient or relocate the receiving antenna.
    - Increase the separation between the equipment and receiver.
    - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
    - Consult the dealer or an experienced radio/TV technician for help