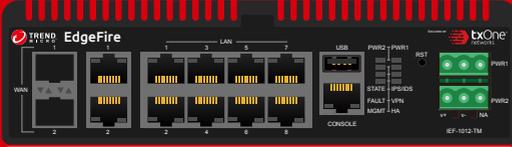# Quick Setup Guide
EdgeFire™

The EdgeFire is a highly integrated industrial multiport secure router with firewall / NAT / VPN / IPS and managed Layer 2 switch functions. It is designed for Ethernet-based security applications providing critical remote control or monitoring networks, and it provides an electronic security perimeter for the protection of critical cyber assets including pump-and-treat systems in water stations, DCS systems in oil and gas applications, and PLC/SCADA systems in factory automation.
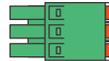
1 Opening and Inspecting the Package
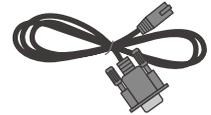
Verify that the EdgeFire package contains the following items:
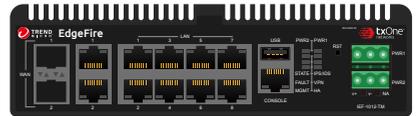
EdgeFire Appliance

Terminal Blocks x 2

Console Cable (RJ-45)
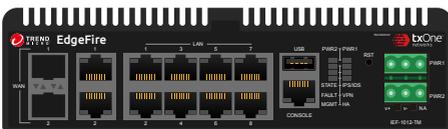

DIN rail kit
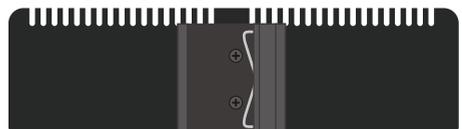(Install on the device)

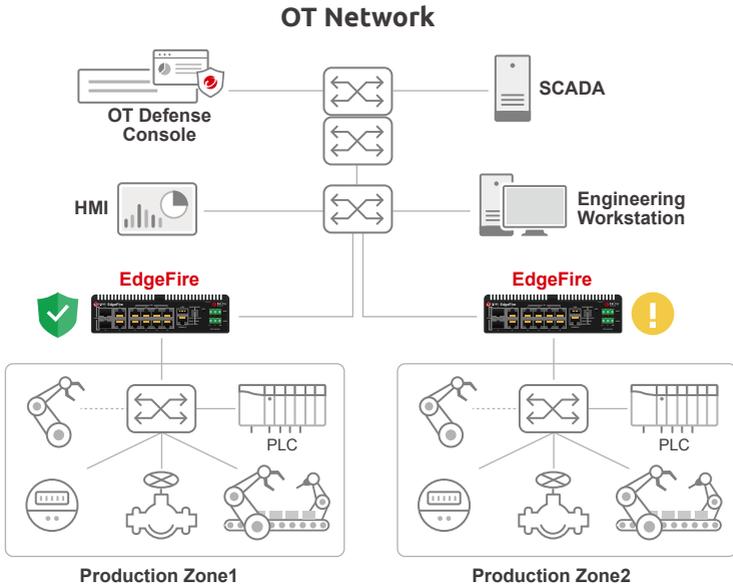Rubber feet x 4

Documents

2 Examining the EdgeFire

EdgeFire Front Panel

EdgeFire Back Panel

Requirement	Details
Ethernet Cables	Connect to the LAN port for web console management and WAN port for external network.
Default IP Address of Web Console	Default access information: https://192.168.127.254 User name: admin Password: txone • IP address must be configured for WAN or LAN usage.
Laptop with Ethernet Port (RJ-45 Type)	The computer must have one of the following browsers installed: - Microsoft Edge (version 15 or above) - Firefox (version 53 or above) - Safari (version 10.1 or above) - Google Chrome (version 63 or above)

3 Deployment Scenario and Security Operation Mode

OT Network

OT Defense Console

SCADA

HMI

Engineering Workstation

EdgeFire

EdgeFire

PLC

PLC

Production Zone1

Production Zone2

Prevention Mode	EdgeFire is placed inline (in the direct communication between source and destination device), where it actively analyzes traffic flow, records event logs and takes automated actions to prevent malicious events.
Monitor Mode	EdgeFire is placed inline (in the direct communication between source and destination device), where it actively analyzes traffic flow and only records event logs without taking action when malicious events are detected.

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4 LED Indicators

The function of each LED is described in the table below

PWR1	● Green	Power 1 is ON
	○ Off	Power 1 is OFF
PWR2	● Green	Power 2 is ON
	○ Off	Power 2 is OFF
STATE	● Green	The system is running
	○ Off	System failure
FAULT	● Red	System failure
	○ Off	System is running without fault
MGMT	● Green	OT Defense Console sync is enabled and ODC is connected
	○ Off	OT Defense Console sync is disabled
HA	● Green	High Availability enabled
	○ Off	High Availability disabled
IPS/IDS	● Green	IPS or IDS enabled
	○ Off	IPS or IDS disabled
VPN	● Green	VPN tunnel established
	○ Off	No VPN tunnel connected

## 5 Reset to Factory Default Settings

The reset button for the EdgeFire is located on the front panel.

Reset type	Description
Reboot System	Press and hold the reset button for 2 to 10 seconds. The STATE LED will begin to blink every second, which means the system is rebooting.
Restore Factory Default Settings	Press and hold the reset button for more than 10 seconds. The STATE LED will begin to blink every half-second, which means the system is resetting itself to default settings.

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6 Installing the EdgeFire - DIN Rail Mounting

The aluminum DIN rail attachment plate should already be fixed to the back panel of the EdgeFire when you take it out of the box. If you need to reattach the DIN rail attachment plate to the EdgeFire, make sure the stiff metal spring is oriented towards the back, as shown in the following pictures.

1x Mount Hold

1x DIN-Rail Kit

1x Mount Hold

Step1.
Push Down

DIN-Rail Kit

Step2.
Push Forward
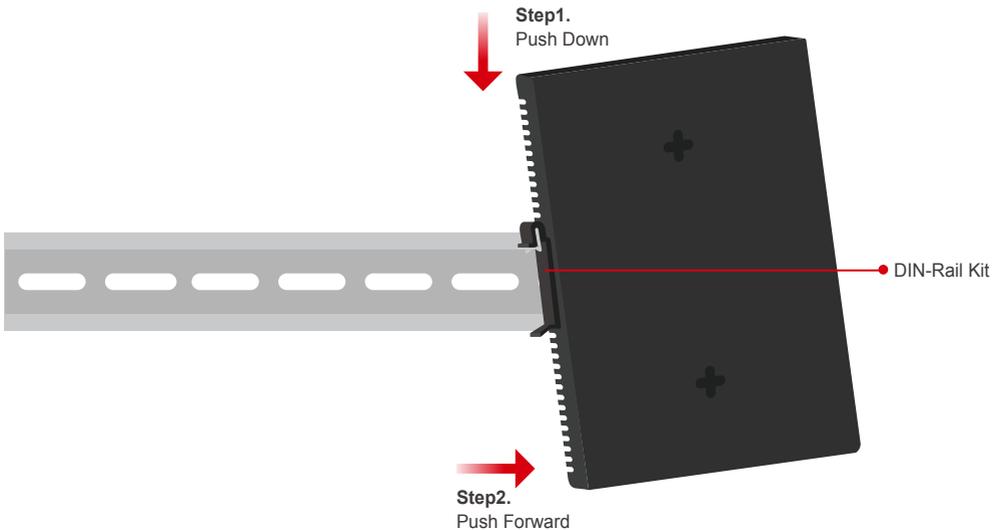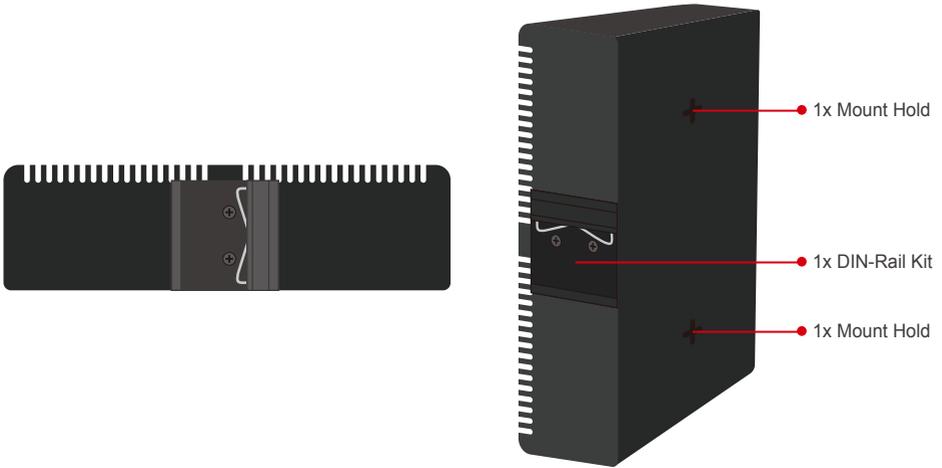
TREND
MICRO

7 Wiring the Redundant Power Inputs

The Trend Micro EdgeFire has two sets of power inputs – power input 1 and power input 2. The top and side views of the terminal block connector are shown below.
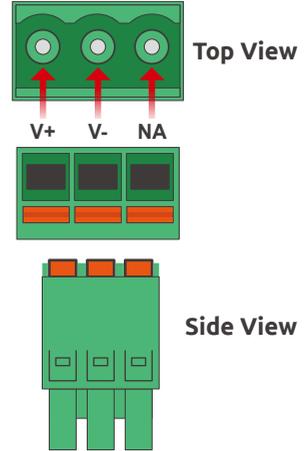
Step1.

Use a small flathead screwdriver to open the locks on the terminal block.

Step2.

Insert a positive / negative DC wire into the V+/V- terminals respectively.

Step3.

Check whether the wires are firmly seated in the terminal block, then tighten the screws to secure the wires.

Top View

V+   V-   NA

**Side View**

8 Connecting the Power

Connect the 12 to 48 VDC power line to the terminal block, which is connected to the EdgeFire device. If the power is supplied properly, the "PWR1" or "PWR2" LED will glow steadily. The power input location and pin definition are shown on the front panel.
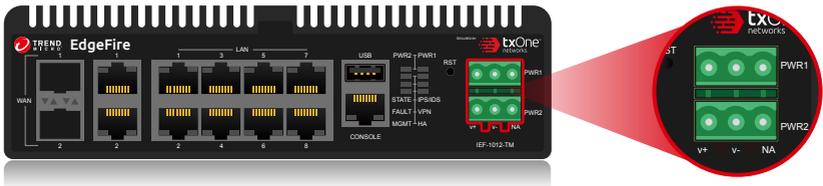
9 Grounding the Unit

Grounding and wire routing limits the effects of noise due to electromagnetic interference (EMI). Run the ground connection from the terminal block connector to the grounding surface prior to connecting the power. Please note that this product is intended to be mounted on a well-grounded mounting surface such as a metal panel. The minimum cross-sectional area of the conductor must be equal to the input wiring cable's width/circumference.

10 Software Configuration
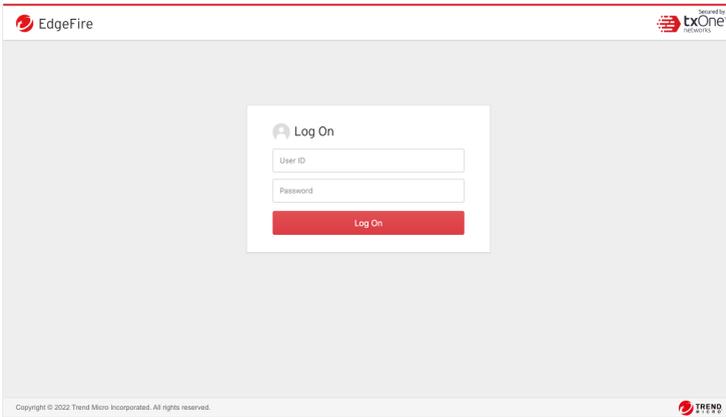
Before connecting the PC/Laptop to the EdgeFire, the PC's IP address should be set to 192.168.127.100. After that, connect the PC to the LAN port of the EdgeFire using an Ethernet cable. Open a web browser on your PC and type "https://192.168.127.254" into the address bar. A pop-up window will open to request user name and password. Please type the default username, "admin", and password, "txone". Now, the main screen will pop up so you can configure EdgeFire.

11 Setting the Management IP Address

1. Go to [Network] > [Network Interface]

Task	Action
IP Address	Configure Management IP Address of the EdgeFire
Subnet Mask	Configure Netmask of the EdgeFire
Network VLAN-ID	Configure Network VLAN-ID of the device

Network > Network Interfaces

Network Interface	Status	Connection Type	IP Address	Subnet Mask	VLAN ID	Description
WAN1	Enabled	Static IP	10.7.19.55	255.255.252.0	-	
LAN1	Enabled	DHCP Service Disabl...	192.168.128.254	255.255.255.0	-	
LAN2	Disabled	DHCP Service Disabl...	0.0.0.0	0.0.0.0	-	
DMZ	Disabled	DHCP Service Disabl...	0.0.0.0	0.0.0.0	-	

2. Click on a LAN interface, the [Edit Network Interface] screen will appear.

Edit Network Interface ✕

Status

Network Interface   LAN1

Description

Network Settings

IP Address*   192.168.128.254

Subnet Mask*   255.255.255.0

VLAN ID

DHCP Service

DHCP Service   Disabled

Save   Cancel

3. In the [Network interface] plane, configure the management IP address for the EdgeFire

12 Connecting to the Network

1. Connect the EdgeFire WAN1 port to a wide area network.
   (ex: the internet or external network)

2. Connect the EdgeFire LAN1 port to a local area network.
   (ex: a segment of your network)

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13 Checking the LED to Confirm Status

The LED on the front panel shows the deployment status.

RJ45	No Light	The EdgeFire cannot communicate with the network.
	Only Left LED	10Mbps LINK/ACT (off = no link, on = 10 Mbps, blinking = activity)
	Only Right LED	100Mbps LINK/ACT (off = no link, on = 100 Mbps, blinking = activity)
	Both Left / Right LED	GE LINK/ACT (Both LED ON = 1 Gbps link, blinking = activity)

Appendix: Connecting to the Console Port

The EdgeFire console port is an RJ-45 port located on the front panel of the case. It is designed for connection to serial console terminals, for viewing messages during the boot sequence, or for debugging system boot issues. To connect the console cable, remove the protective cover on the port.

Serial Console Port, Cable, & Pinouts

RJ45
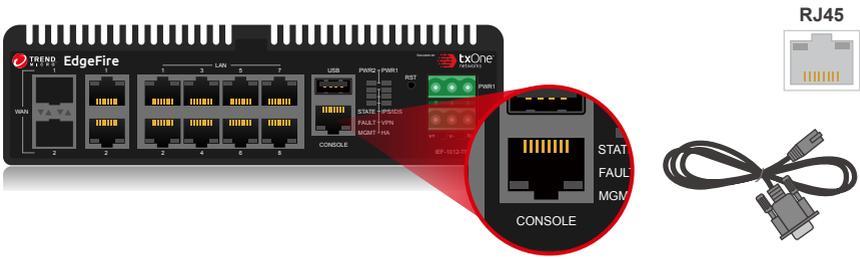
Initial configuration for the EdgeFire using the command line interface (CLI) on a serial terminal client will use the following default settings:

• Baud Rate: 115200 bps
• Character size: 8 bits
• Parity: None

• Stop Bits: 1
• Flow Control: None

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Contact Information

Website
https://www.trendmicro.com

List of worldwide offices and phone numbers
https://www.trendmicro.com/us/about-us/contact/index.html

Technical support page
https://success.trendmicro.com/

EULA
https://www.trendmicro.com/en_us/about/legal.html

EdgeFire Datasheet/Application Note Landing Page

ATTENTION

There is a risk of explosion if the battery is replaced with an incorrect type of battery.

The means of power cord of adapter should be connected to a socket-outlet with earthing connection.
The power for this product is intended to be supplied by a Listed Power Supply, with output marked LPS or PS2, and rated to deliver 12 to 48 VDC at a Minimum of 2.3 A.