Quick Setup Guide
EdgeIPS™ Pro 216 Rugged

txOne networks

Support configurable hardware bypass

EdgeIPS Pro 216 Rugged is a Transparent Security Appliance, supporting up to 8 pairs of IPS segments. Users can efficiently adapt the rack mounted EdgeIPS Pro 216 Rugged into a flexible solution for the challenges of Ethernet communications.

1 Opening and Inspecting the Package

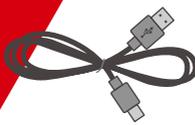EdgeIPS Pro 216 Rugged Appliance

Terminal Block

Rubber Feet x 4

DIN-Rail Kit (installed on EdgeIPS Pro 216 Rugged)
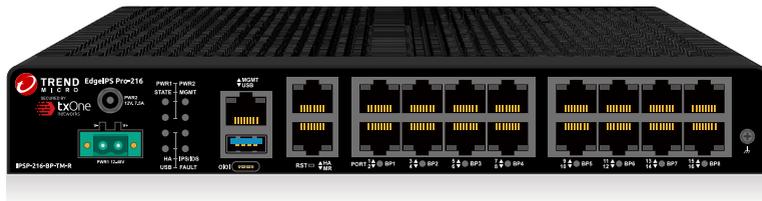
Power Cord x 4

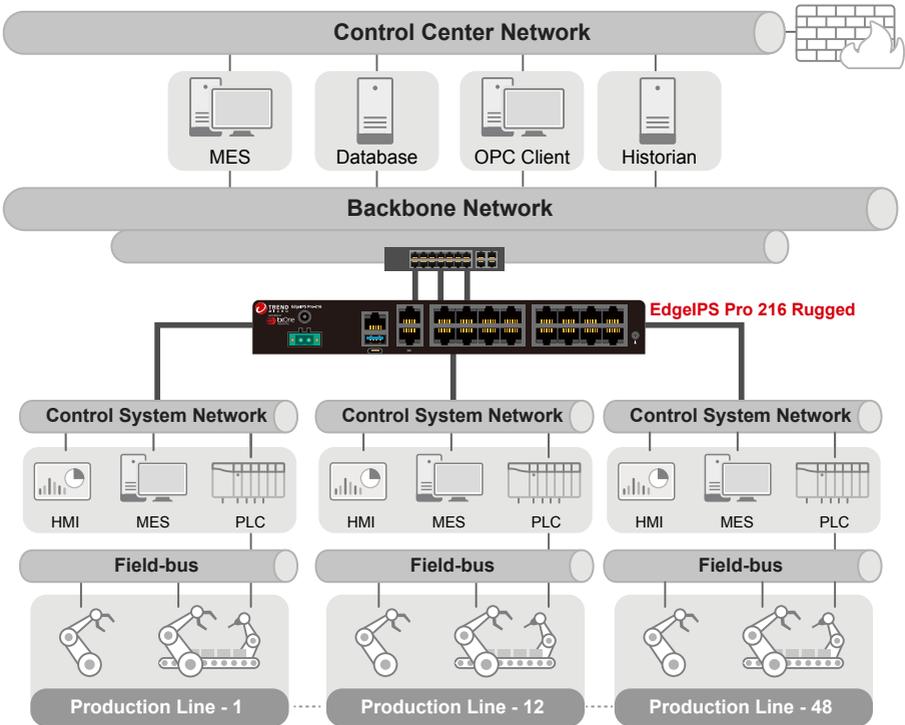Console Cable (USB Type-C)

Adapter

Documents

2 Examining the EdgeIPS Pro 216 Rugged

txOne networks

3 Deployment Checklist

Requirement	Details
Ethernet Cables	Connect to the Management Port to access web management console.
Default IP Address of Web Console	Default web console access information: https://192.168.127.254 User Name: admin Password: txone
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)

4 Deployment Scenario

Control Center Network

MES   Database   OPC Client   Historian

Backbone Network

EdgeIPS Pro 216 Rugged

Control System Network   **Control System Network**   **Control System Network**

HMI   MES   PLC

Field-bus

Production Line - 1   **Production Line - 12**   **Production Line - 48**

5 LED Indicators

The function of each LED is described in the table below.

| PWR1	● Green	Power 1 is on, and the device is functioning normally.
	● Off	Power 1 is off.
PWR2	● Green	Power 2 is on, and the device is functioning normally.
	● Off	Power 2 is off.
STATE	● Green	The system is running normally.
	● Off	The system failed and the FAULT LED will also be turned on.
MGMT	● Green	OT Defense Console (ODC) sync is enabled and ODC is connected.
	● Off	OT Defense Console sync is disabled.
HA	● Green	High Availability feature is enabled.
	● Off	High Availability feature is disabled.
USB	● Green	LED will be turned on when a USB flash drive is plugged in.
	● Blinking	USB data transmission is in progress.
	● Off	No USB flash drive is plugged in.
IPS/IDS	● Green	IPS or IDS is enabled.
	● Off	IPS or IDS is disabled.
FAULT	● Red	A hardware or system fault occurs.
	● Off	System is operating normally.

6 Resetting to Factory Default Settings

The reset button for EdgeIPS Pro 216 Rugged 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 1 second, indicating that 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, indicating that the system is resetting itself to factory defaults.

7 Mounting the EdgeIPS Pro 216 Rugged to a DIN Rail

The aluminum DIN rail attachment plate should already be fixed to the back panel of EdgeIPS Pro 216 Rugged when you take it out of the box. If you need to reattach the DIN rail attachment plate to EdgeIPS Pro 216 Rugged, make sure the stiff metal spring is oriented towards the back, as shown in the following pictures.

Step1.
Push Down

Step2.
Push Forward

DIN-Rail Kit
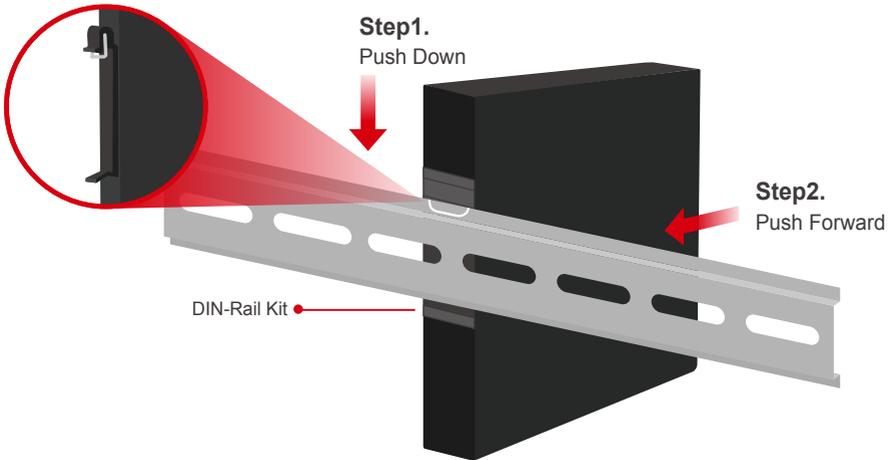
8 Wiring a Power Input

The EdgeIPS Pro 216 Rugged has two types of power inputs. Use the provided power adapter (DC-IN Jack) or other 12V DC power supply (terminal block).The power input location and pin definition are shown in the following diagram.

Connect the Power with the DC Power Adapter

Insert the provided adapter into the DC-IN jack connector on the top side of EdgeIPS Pro 216 Rugged.
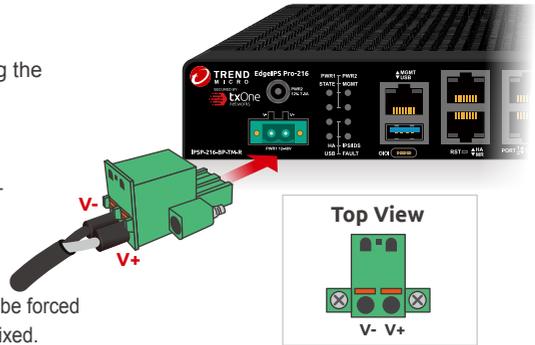
Step1.

Open the terminal block's wire locks by pushing the buttons down.

Step2.

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

Step3.

When the wire is properly seated, the wire lock will be forced shut around it. Check whether the wire is properly fixed.

⚠️ Consult with your electrician engineer before connecting EdgeIPS Pro 216 Rugged to a DC power source.

⚠️ Electrostatic discharge (ESD) can damage your EdgeIPS Pro 216 Rugged.

Top View

V- V+

9 Connecting the Power

If the power is supplied properly, the "POWER" LED will glow steadily.

10 Grounding the Unit

Grounding and wire routing help limit 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.
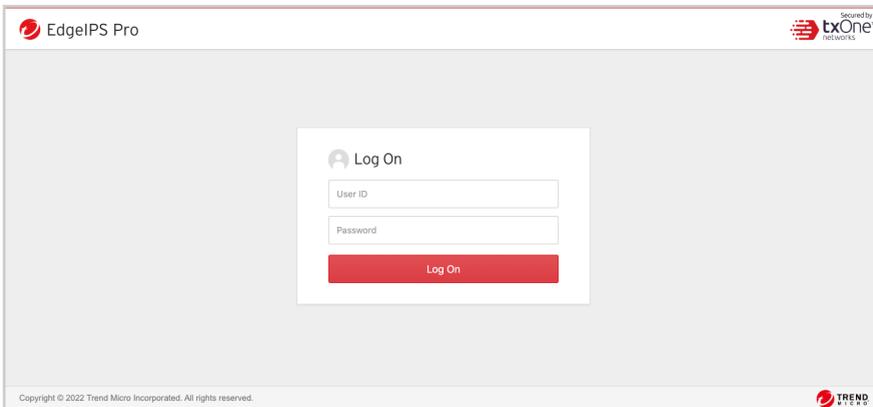
Before you connect the PC/laptop to EdgeIPS Pro 216 Rugged, the PC's IP address should be set to 192.168.127.100. After that, connect the PC and EdgeIPS Pro 216 Rugged using an Ethernet cable. Open a web browser on your PC and type "https://192.168.127.254" into the address bar. A pop-up window will open to ask for user name and password. Please type the default username, "admin", and password, "txone".

Now, the main screen will pop up so you can configure EdgeIPS Pro 216 Rugged.
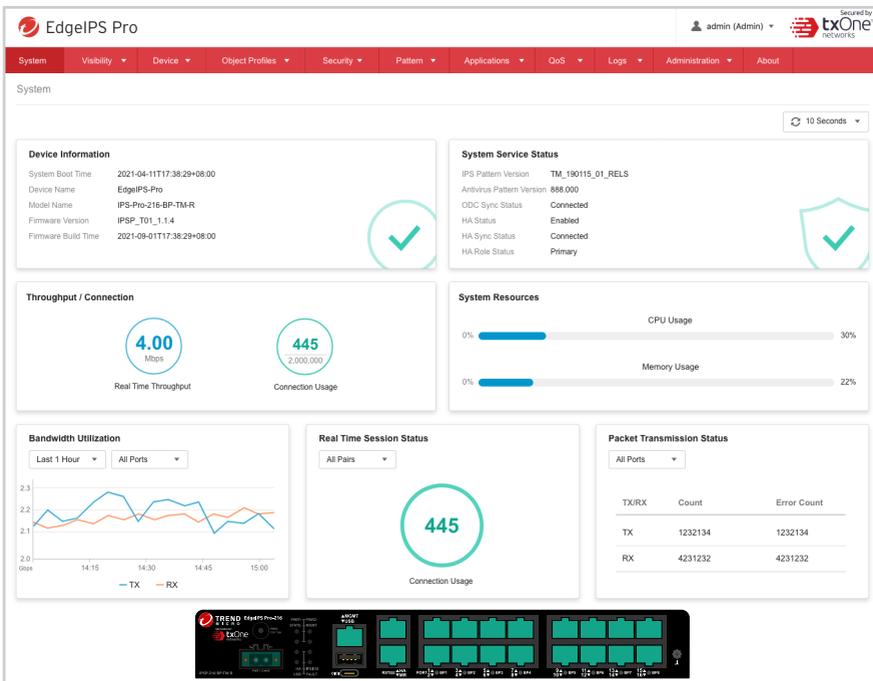
12 Configuring the Management Port

1. Go to [Network] > [Device Settings].
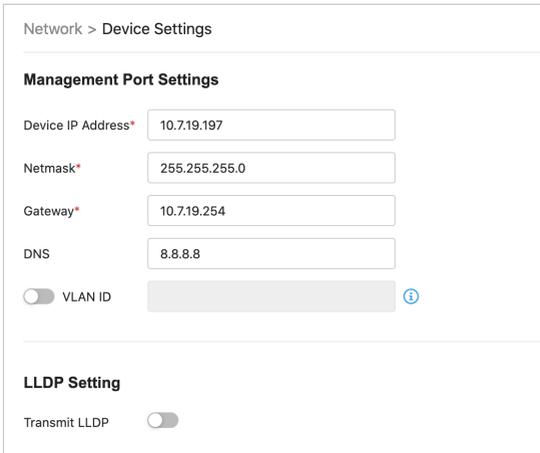
Network > Device Settings

Management Port Settings

Device IP Address*	10.7.19.197
Netmask*	255.255.255.0
Gateway*	10.7.19.254
DNS	8.8.8.8
⬜ VLAN ID	ⓘ

LLDP Setting

Transmit LLDP ⬜

2. In the [Device Settings] pane, configure the management port for EdgeIPS Pro 216 Rugged.

Task	Action
Device IP Address	Configure Management IP Address of the EdgeIPS Pro 216 Rugged
Netmask	Configure Netmask of the EdgeIPS Pro 216 Rugged
Gateway	Configure Gateway Address of the EdgeIPS Pro 216 Rugged
DNS	Configure DNS setting of the EdgeIPS Pro 216 Rugged
Network VLAN ID	Configure Network VLAN ID of the EdgeIPS Pro 216 Rugged

13 Connecting to the Network

Use the management port to access the EdgeIPS Pro 216 Rugged web console from another computer on your network.

1. Connect one end of a Category 5e (Cat-5e) Ethernet cable to the MGMT port located on the front panel.
2. Connect the other end of the cable to an Ethernet port connected to your network.

Checking LED Indicators to Confirm Status

The LED on each Ethernet port shows the deployment status.

MGMT/MR	No Light	The EdgeIPS Pro 216 Rugged appliance cannot communicate with a network.
	Left LED	GE LINK/ACT (off = no link, on = activity)
	Right LED	1 Gbps LINK/ACT (on = 1 Gbps link)
	Right LED	100 Mbps LINK/ACT (on = 100 Mbps link)
	Right No Light	10 Mbps LINK/ACT (off = 10 Mbps link)
HA	No Light	The EdgeIPS Pro 216 Rugged appliance cannot communicate with a network.
	Left LED	GE LINK/ACT (off = no link, on = activity)
	Right LED	1 Gbps LINK/ACT (on = 1 Gbps link)
	Right LED	100 Mbps LINK/ACT (on = 100 Mbps link)
	Right No Light	10 Mbps LINK/ACT (off = 10 Mbps link)
RJ45	No Light	The EdgeIPS Pro 216 Rugged appliance cannot communicate with a network.
	Left LED	GE LINK/ACT (off = no link, on = activity)
	Right LED	1 Gbps LINK/ACT (on = 1 Gbps link)
	Right LED	100 Mbps LINK/ACT (on = 100 Mbps link)
	Right No Light	10 Mbps LINK/ACT (off = 10 Mbps link)

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Hardware Bypass LED Indicators

The Bypass LED states and device statuses of each IPS port pair are shown below.
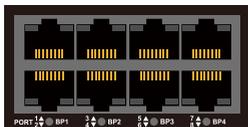
Bypass LED State	Device Status
No Light	Hardware bypass pair of ports is disabled
Turn on RED	Hardware bypass pair of ports is enabled
Turn on Green	Hardware bypass pair of ports is normal

Appendix: Connecting to the Console Port

The EdgeIPS Pro 216 Rugged console port is a USB Type-C port located on the front panel of the case. It is designed for connecting to serial console terminals to view messages during a boot sequence or for debugging system boot issues. To connect to a serial console terminal using a console cable, remove the protective cover from the port.

USB Type-C

The default settings upon the initial configuration for EdgeIPS Pro 216 Rugged using the command line interface (CLI) on a serial terminal are listed below.

• Baud Rate: 115200 bps
• Character Size: 8 bits
• Parity: None
• Stop Bits: 1
• Flow Control: None

Contact Information

Website
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List of Worldwide Offices and Phone Numbers
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EULA
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