Datasheet

EdgeOne

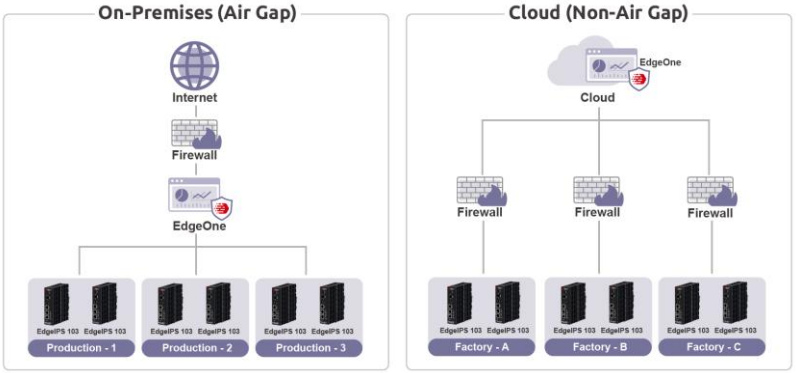
Holistic Industrial Central Management Console

Safeguarding the Future of Industry: OT Network Security Solutions for Uninterrupted Operation

As we enter the era of Industry 4.0, the integration of Operational Technology (OT) into manufacturing and industrial production is revolutionizing the industry. However, this advancement also brings an increase in sophisticated cyber threats such as ransomware, supply chain attacks, and critical infrastructure targeting. To combat these threats, TXOne has developed a comprehensive suite of OT security solutions, meticulously designed in respond to the complex needs of today's production environments.

TXOne offers versatile Edge security solutions tailored to various industries and operational needs. Our Edge Series devices provide robust protection without disrupting production, integrating seamlessly into existing networks and ensuring continuous operation. With advanced CPSDR technology and comprehensive security features, TXOne safeguards your OT environment, offering unparalleled visibility and defense against evolving cyber threats.

Additionally, EdgeOne also offers centralized management and a comprehensive security overview, enabling operators to efficiently deploy and manage security policies across all Edge Series devices through an intuitive, real-time dashboard with a holistic view.



Solution Overview

Building a reliable OT network with ease involves three key elements. First, ensuring a strong feature-environment fit is crucial for seamless hardware **adoption**. Second, all security features are designed with a primary focus on **operational** efficiency and continuity. Lastly, OT-specific insights play a pivotal role in enhancing **prevention** capabilities, addressing gaps often overlooked by general IT security products.

You can find your Edge for all sorts of environments —whether harsh or temperate, centralized or distributed. Our flexible connection types and available port density options ensure that your specific needs are met. The pioneering fail-safe mechanisms and AI-driven deployment strategies reduce the configure-to-service time, ensuring a seamless, uninterrupted end-to-end flow. Combined with our OT-centric, proactive prevention technologies, TXOne makes resilient networking both practical and effective. With rising cybersecurity threats, robust OT security is crucial. TXOne Edge products offer innovative Network-wide Security Situational Awareness, providing real-time threat detection and response across the entire OT environment.

Core Capabilities

One-Stop OT Security in a Unified Solution

- Covers the full scope of OT security—including network visibility, asset management, vulnerability assessment, network segmentation and protection, and continuous detection—in a single, streamlined platform.
- Delivers comprehensive protection and simplified management across your OT environment.

Engineered for Industrial-Grade Resilience, Security, and Flexibility

- Tailored for OT environments and industrial design.
- Facilitates cross-plant management with seamless SOC/SIEM and XDR integration.
- Prevents the spread of worms across nodes in the EdgeIPS and EdgeFire product families.
- Supports virtual deployments compatible with your preferred server.

Comprehensive Visibility Across Large-Scale OT Networks

- Customizable dashboards and widgets along with purpose-built vulnerability views reveal asset exposures, risks, and potential threats for proactive mitigation.
- One-of-a-kind Vulnerability Detection Service (VDS) provides one-stop monitoring and defense against CVEs.
- Scales across thousands of assets at multiple sites with EdgeIPS and EdgeFire product families.
- Delivers operational visibility into your shadow OT environment for improved security management.

Streamlined Policy Control and Operational Efficiency

- Reduces maintenance costs with intuitive, centralized management of policies, signatures, and provisions.
- Supports manual firmware/pattern updates by node group and dual-track parallelization for both centralized and decentralized policies.
- Logs all Edge device activities, from cybersecurity enforcement and protocol filtering to asset detection, and accelerates reporting with on-demand or scheduled options.

Centralized Management Across Both On-Premises and Cloud Environments

- Centralizes daily security tasks with a single on-premises or cloud management console for enhanced efficiency and diverse operational needs.
- Manages multiple production lines within a single factory using on-premises EdgeOne.
- Speeds up deployment and streamlines operations across sites with EdgeOne cloud.
- Supports major cloud platforms, including AWS, Azure, and Google Cloud.

Unified Policy Deployment and Holistic Visibility via CPS Protection Platform Integration

- Empowers TXOne SageOne to manage all Edge Series devices.
- Enriches data points of SageOne with network security insights.
- Enables SageOne with comprehensive protection and threat detection across all CPS assets.
- Offers actionable recommendations for OT security management teams.

Key Features

Organize Information with EdgeOne Dashboards

EdgeOne dashboards offer a comprehensive overview of your OT network, security posture, and detected vulnerabilities. With customizable widgets, you can categorize alerts, assets, CVEs, and incident events, allowing you to effectively monitor the security of your entire OT environment.

Operational Perspective on Your Cyber Situation

EdgeOne provides comprehensive insight into all installed ICS assets within the OT environment, including their connections and the shadow OT environment.

Flexible Cyber Defense Policy Enforcement by Group

EdgeOne simplifies the batch application of OT security policies, including IPS rules (virtual patching) and industrial protocols by groups. This streamlines the extensive, remote management of Edge devices across various and distant facilities.

Effortless and Thorough Account Management

EdgeOne supports the creation of multiple accounts, each with distinct role-based permissions, empowering administrators to efficiently manage the EdgeOne system.

Elevated Network Visibility in Your Field

Gain instant, intuitive visibility into your OT network with TXOne's innovative Network Graph. This dynamic view maps every connection between assets so you can quickly understand traffic paths, uncover hidden relationships, and spot risks like compromised devices or abnormal activity before they impact operations.

Third-Party Integration

The integration with third-party service platforms enables interoperability with SIEM (Security Information and Event Management) systems and SOC (Security Operation Center) through its API.

Network-Based Asset Vulnerability Detection Service

EdgeOne's cutting-edge Vulnerability Detection Service (VDS) delivers full-spectrum visibility into every CVE impacting your production legacy assets and network. By acting on prioritized, actionable recommendations, VDS empowers your operations to stay one step ahead—proactively hardening your environment against evolving cyber threats.

Streamlined Functionality Updates

Edge Series products can be updated with the latest patterns and firmware by node groups, increasing administrative efficiency and centralizing on-site support tasks.

User-Friendly Log Viewer with Adaptive Queries

EdgeOne keeps a detailed record of essential logs, allowing you to generate reports from these log files to meet various security objectives.

Real-Time Notifications

EdgeOne sends user-defined email notifications with SMTP to system administrators, allowing for instant alerts to promptly address issues as they arise.

Holistic CPS Protection Platform Integration

By integrating TXOne SageOne with Edge security solutions, you can orchestrate cybersecurity information across all Edge Series devices. This integration goes beyond visibility, offering comprehensive protection and threat detection across all CPS facilities in your organization. It offers actionable recommendations ready for implementation by OT security teams.

EdgeOne Specifications

EdgeOne – Virtual Appliance (On-Premises)							
Target Max Managed Node Count	1000	500	300	200	150	100	50
vCore	32	16	12	8	6	4	4
Memory (Basic Requirement)	128GB	96 GB	64 GB	32 GB	32 GB	16 GB	16 GB
Memory (Recommended)	192GB	128GB	96GB	64GB	64GB	32GB	32GB
Disk Storage (Recommended)	SSD or HD with a storage capacity of 10TB or above	SSD or HD with a storage capacity of 5TB or above	SSD or HD with a storage capacity of 2TB or above	SSD or HD with a storage capacity of 2TB or above	SSD or HD with a storage capacity of 1TB or above	SSD or HD with a storage capacity of 1TB or above	SSD or HD with a storage capacity of 1TB or above
	RAID system recommended						
Supported Hypervisors	VMWare ESX 6.0 or above VM Workstation 14 or above KVM 2.x or above Hyper-V 10.x or above Nutanix AHV 20220304.342/AOS 6.5.2 LTS or above						

EdgeOne – Cloud Platform							
Target Max Managed Node Count	1000	500	300	200	150	100	50
vCore	32	16	12	8	6	4	4
Memory	128GB	128GB	64 GB	32 GB	32 GB	16 GB	16 GB
VM Size (Amazon Web Services)	m5.8xlarge	m5.8xlarge	m5.4xlarge	m5.2xlarge	m5.2xlarge	m5.xlarge	m5.xlarge
VM Size (Microsoft Azure)	Standard_B32s_v2	Standard_B32s_v2	Standard_B16ms	Standard_B8ms	Standard_B8ms	Standard_B4ms	Standard_B4ms
VM Size (Google Cloud)	e2-standard-32	e2-standard-32	e2-standard-16	e2-standard-8	e2-standard-8	e2-standard-4	e2-standard-4
Supported Cloud Platforms	Amazon Web Services Microsoft Azure Google Cloud						

*Note: Up-to-date hypervisor support can be found in the release notes for each EdgeOne version.