Secure Gateway Edge™ 2000

Mission-Ready Security for Government, Defense, and Critical Infrastructure

## Introducing the newest Secure Gateway Edge™: Uncompromising Protection, Built for the Edge

The newest **Byos Secure Gateway Edge™ 2000** protects OT, IIoT, and legacy infrastructure from cyber threats. Using hardware-enforced microsegmentation across OSI layers 1-5, it provides host-independent protection ideal for critical assets. By physically isolating endpoints and processing security locally, it prevents lateral movement and enables secure remote access without internet exposure.

Key Features & Benefits
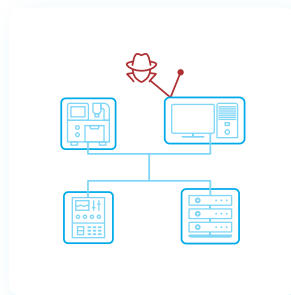
Reduced Attack Surface with Microsegmentation

- Isolates each endpoint to prevent unauthorized access
- Eliminates exposure of networked devices to internal threats like lateral movement and ransomware
- Protects vulnerable legacy systems without software modifications

Secure Granular Access Control and Connectivity

- Byos' Secure Software Defined Network (SDN) Overlay establishes encrypted, device-to-device communication
- Enables secure remote access without traditional VPNs
- Connect previously air-gapped devices to the network for secure monitoring and maintenance without the internet exposure
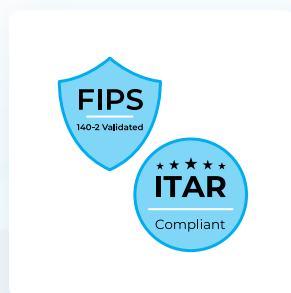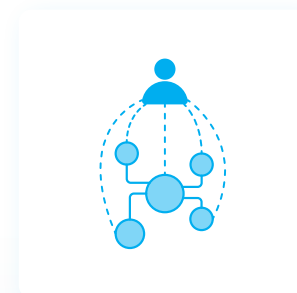
Designed with Security & Compliance in mind

- FIPS 140-2 Validated - meets the most stringent government and industry security standards
- Truly network agnostic, working seamlessly across IT, OT, and IIoT environments
- Fully ITAR compliant, with certified supply chain in the U.S.A

Technical Specifications

Engineered for Greater Performance & Resilience

Details	Customers	Defense
	Manufacturing	U.S.A.
	Supply Chain	ITAR Compliant
	Operation Mode	Wi-Fi Client Mode | Ethernet Mode
	Software	FIPS 140-2 Validated Cryptographic Module #4964
	Hardware Security	Secure Boot, Encrypted Root Filesystem, Anti-Tamper Security Rivet
Network	LAN (downlink)	1Gbps Ethernet Port
	WAN (uplink)	1x - 1Gbps Ethernet port
	Wi-Fi	802.11ax Wi-Fi interface/ 2x2 802.11a/b/g/c
	PCIE	Expandable PCIE interface
Mechanical Specifications	Dimensions	112 x 82 x 43 mm
	Enclosure Material	Anodized Aluminium
	Cooling	Passive, fanless design
	Weight	200g
	Weight (As Shipped)	400g
Electrical Specifications	Supply Voltage	Unregulated 8V to 36V
	Power Consumption	2W - 7W
	Regulatory	FCC
	EMC	-
	Safety	-
Reliability and Environmental	MTTF	0° to 60° Ct
	Warranty	1 Year
	Operational Temps	Commercial: 0° to 60° C Extended: -20° to 60° C Industrial: -40° to 80° C
	Storage Temps	- 40° to 85° C
	Relative Humidity (Operation)	10% to 90%
	Relative Humidity (Storage)	05% to 95%

Anti-Tamper Security Rivet prevents the enclosure from being opened, ensuring and protecting the integrity of the device throughout its lifetime.

Use Cases

Byos is built to cloak and isolate both IT and OT devices at the network edge, offering simple, effective security solutions for government, defense, and critical infrastructure.

Cloak Government & Defense Networks

- Secure mission-critical infrastructure with sensitive data from cyber threats

Industrial Control Systems (ICS) Security

- Protect SCADA, PLCs, and HMIs in classified and unclassified environments

Secure Machine Data Capture

- Provide encrypted remote reach-back access for military and government personnel without exposing assets

Critical Infrastructure Protection

- Isolate and segment essential systems in energy, transportation, and defense sectors

Simplified Compliance & Audits

- Create microsegments tailored to compliance needs and meet cybersecurity mandates for government, military, and industrial sectors

Flexible Deployment Options with Byos

Seamless Security Without Network Overhauls

Securely deploy Secure Gateway Edges™ across your network, with the existing network configurations, without having to expose any internal assets to the internet.

• SMA and Y-Cable Options

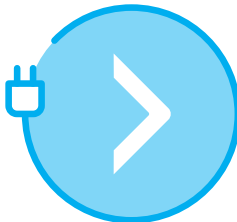Supports external antenna connections and optimized cabling configurations for secure deployments

• Compact, Ruggedized Form Factor
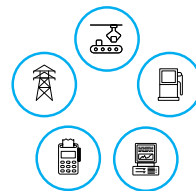
Built for harsh industrial and military environments

• DIN Mountable

Designed for easy integration into military and industrial control panels

• Plug-and-Play Installation

Works with existing infrastructure without requiring reconfiguration

• Multi-Protocol Support

Protects a wide range of industrial devices, including PLCs, controllers, and SCADA systems

What's Included in the Box

When you receive your **Secure Gateway Edge™**, the package includes everything needed for a seamless deployment:

- **Byos Secure Gateway Edge™ 2000** – Ruggedized, industrial-grade secure gateway
- **Power Supply** – For easy deployment and instant set up
- **Ethernet Cable** – For quick network connectivity

Secure Gateway Edge™ 2000:
Built for the most Demanding Environments

Get in touch with Byos today to learn more about the Secure Gateway Edge™ 2000.
Visit us at byos.io or connect with us at engage@byos.io

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