Safely connect industrial assets to cloud-based analytics tools and reliably replicate large databases using WebSensing's **Cloud Gateway.**

Increasingly, companies are taking advantage of the fact that industrial automation and control system data can drive operational efficiencies. Many analytic providers have emerged that ingest industrial data and extract actionable insights from it that can lead to significant productivity improvements.

With the value of industrial data on the rise, many organizations also seek the ability to reliably replicate large databases at locations that are geographically remote from where they are created.

Unfortunately, these benefits come with implementation challenges: Industrial systems are not designed to operate with cloud servers and connecting them to the Internet increases risk. Cyber-attacks are on the rise with industry targeted by malicious hackers, disaffected employees, organized crime, and aggressive foreign competitors. Attackers are often out for more than simply access to process data: intellectual property, manufacturing details and timelines, private personal information, and corporate financial data all represent damaging leaks. Attackers have repeatedly been able to hold businesses hostage by disabling critical systems until their ransom demands are met.

The Web Sensing Cloud Gateway builds upon our Data Diode technology, wrapping dedicated servers on either side of a diode, augmenting traffic flow with our patented Turnstile technology, and isolating power domains to each side of the diode. This provides an *isolation barrier with guaranteed data delivery*, that stops malicious attacks back into your protected plant, either through the network or the power lines.

The Gateway lets you connect your assets to the Cloud, while keeping attackers out. It uses standard protocols so you can keep your existing control equipment yet still benefit from Cloud analytics.

Form Factor	2U Rack-mount
Server Operating Systems	Windows or Linux
Traffic Signing & Encryption	Hardware or Software available
Power supply	Dual 110v isolated supplies
WAN/LAN	Ethernet (10/100/1000)
Max Throughput / Latency	1Gbps / 50 micro-seconds
Protocol	Augmented UDP, others available
Max Concurrent Sessions	limited by throughput
Logic	Web Sensing Hardware Diode and Turnstile[1]
Custom Traffic Inspection	available
SNMP[2] Monitoring	available

[1] U.S. Patents 10,148,761 (Dec 4 2018), 10,389,817 (Aug 20 2019), 10,616,344 (Apr 7 2020), and 10,938,913 (Mar 2 2021)

[2] Simple Network Management Protocol