

Tofino™ Stateful Firewall Module

Traffic control cop for industrial networks

Data Sheet

MM-DS-9520-FW-G-1

Version 3-M



Take control of your network traffic

The vast majority of control networks have little or no isolation between different subsystems. If a device misconfiguration, hardware failure, or virus causes a problem in one part of the network, it can spread throughout the entire network in seconds and bring your whole plant down. Even redundant backup systems can fail simultaneously if their network connections are not protected.

The Tofino Firewall LSM is a traffic control cop for industrial networks, checking all communications on your control network against a list of traffic 'rules' defined by your control specialists. Any communication that is not on the 'allowed' list will be blocked and reported by the Tofino Firewall.

Traffic rules are created using terms and concepts that are already familiar to control specialists. And, the unique 'test' mode of *Tofino* lets you test your rules without any risk to plant operation.

Saves you money through:

- Simplifying compliance to safety and security standards
- Reduced down time and production losses
- Improved system reliability and stability

Features

- Traffic rules are defined by your control engineer, specifying which devices may communicate using what protocols
- Rule definition is simple using a graphical drag-and-drop editor
- Traffic that does not match the rules is automatically blocked and reported
- Over 50 pre-defined IT and industrial communication protocols
- Over 25 pre-defined controller templates
- Pre-defined 'special rules' for advanced traffic filtering and vulnerability protection

Applications

- Isolate critical devices from threat sources
- Separate control network into security 'zones', restricting communications between zones
- Protect controllers with known vulnerabilities

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Features and Specifications

Protects multiple devices	Master and slave devices are supported, with unique direction and permission settings for each client/server connection
Filter policy	Deny by default: any network traffic that is not on the 'allowed' list is automatically blocked and reported
State tracking	Stateful Packet Inspection (SPI)
User-settable options	IP-based-protocols: <ul style="list-style-type: none">▪ <i>Source device</i>: specific IP address, network, or 'any'▪ <i>Destination device</i>: specific IP address, network, broadcast, multicast, or 'any'▪ <i>Application protocol</i>: any combination of single, list, and/or range of port numbers▪ <i>Direction</i>: incoming, outgoing, bidirectional Both IP-based and non-IP protocols: <ul style="list-style-type: none">▪ <i>Permission</i>: allow, deny, allow/log, deny/no log
Transport protocols	TCP, UDP and non-IP protocols supported
Configuration method	Simple configuration using the Tofino Central Management Platform (CMP)
Operating modes	All standard Tofino modes supported: <ul style="list-style-type: none">▪ <i>Passive</i>: all traffic allowed, no alerting▪ <i>Test</i>: all traffic allowed; alerts generated as per user rules▪ <i>Operational</i>: traffic filtered and alerts generated as per user rules
Security alerts	Reports blocked traffic to the Tofino CMP via Tofino Exception Heartbeats
Certifications	<ul style="list-style-type: none">▪ MUSIC 2009-1 security certified (Foundation level)▪ Certified Modbus compliant by Modbus-IDA
System requirements	<ul style="list-style-type: none">▪ Tofino Security Appliance▪ Tofino Central Management Platform (CMP)
Ordering information	Part number: 9520-FW Name: Tofino™ Stateful Firewall Module Visit: www.mtl-inst.com/tofino for ordering info for all products.

The Tofino™ Stateful Firewall Module is a component of the Tofino™ Industrial Security Solution:

Tofino Security Appliance

Hardware platform implementing Zone Level Security on control networks.



Loadable Security Modules

Firmware modules that customize the security features on *Tofino*.

- **Firewall**: Traffic Control Cop for industrial networks
- **Modbus TCP Enforcer**: Content Inspector for Modbus
- **Secure Asset Management**: Tracks and protects network devices
- **VPN**: Secure tunnels over untrusted networks

Central Management Platform

Software to configure, manage and monitor all your Tofino Security Appliances from one workstation.



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