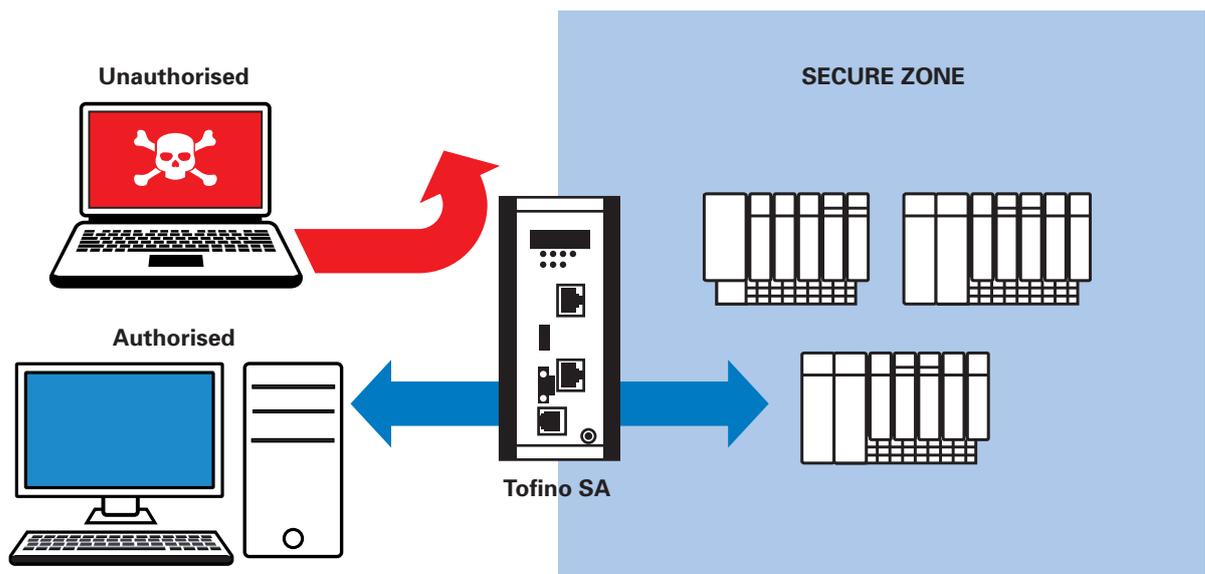


## Tofino™ 9202-ETS range

### Key Features:

- Improved system reliability and stability
- Reduced down time and production losses
- Lower maintenance costs
- Simplified regulatory and security standard compliance
- Plug-n-Protect installation requires no preconfiguration, no network changes, and no disruption to the control system
- Simple configuration over the network using the free Tofino Configurator software
- Unique 'Test' mode allows firewall testing with no risk to your operation
- Pre-installed Firewall, Event Logger and NetConnect Loadable Security Modules (LSM)
- Compatible with all DCS, PLC, SCADA, networking, and software products
- Both Multimode and Singlemode fibre optic hardware versions for long distance applications
- Rugged hardware design for years of reliable service
- Secure networks with security zones as per NERC, ANSI/ISA, and IEC standards
- Protect connections to partners networks and wireless networks
- Improve SCADA and process control network reliability and performance



## SPECIFICATIONS

### Ethernet Interfaces

Part Number	Media	Net 1	Net 2
9202-ETS	Copper/Copper	100BASE-TX	100BASE-TX
9202-ETS-MC-SC	Multi-mode/ Copper	100BASE-FX	100BASE-TX
9202-ETS-MM-SC	Multi-mode/ Multi-mode	100BASE-FX	100BASE-FX
9202-ETS-SC-SC	Single-mode/ Copper	100BASE-FX	100BASE-TX

(dependent of device variant)

### Additional Interfaces

#### USB Interface

1 x USB socket to connect load/verify configuration

#### Digital Input

1 x plug-in terminal block, 2-pin

#### Signalling Contact

1 x max. 60 V DC or max. 30 V AC, SELV, max. 1A

### Network Size

#### Twisted Pair

(TP) 0 to 100 m

#### Multimode Fibre (MM) 50/125 µ

0 to 5000 m, 8 dB Link Budget at 1300 nm, A = 1 dB/km,  
3 dB Reserve, B = 800 MHz x km

#### Multimode Fibre (MM) 62,5/125 µm

0 to 4000 m, 11 dB Link Budget at 1300 nm, A = 1 dB/km,  
3 dB Reserve, B = 500 MHz x km

#### Singlemode Fibre (SM) 9/125 µm

0 to 30 km, 16 dB Link Budget at 1300 nm, A = 0.4 dB/km,  
3 dB Reserve, D = 3.5 ps/(nm x km)

### Power Requirements

#### Operating Voltage

12 to 48 V DC, 24 V AC redundant power supply

#### Power Consumption

5 Watts

#### Power Supply/Signaling Contact

1 x plug-in terminal block, 6-pin

### Software

#### Management

MTL Tofino Configurator (TC) software

#### Loadable Security Modules (LSMs)

Basic LSMs (pre-installed): Firewall, Event Logger &  
NetConnect Enforcer.

#### LSMs (to be ordered separately):

Modbus TCP Enforcer (9522-MBT), OPC Enforcer (9522-  
OPC), EtherNet/IP Enforcer (9522-EIP), DNP3 Enforcer  
(9522-DNP3), IEC104 Enforcer (9522-IEC104) & GOOSE  
Enforcer (9522-GOOSE)

#### Diagnostics

LEDs (power, mode, fault, save/load, reset, link status), signal  
contact, syslog, configuration verify

#### Firewall

Stateful layer 2, 3 and 4 filtering with optional deep packet  
inspection for SCADA protocols  
(depending on purchased LSMs)

#### System Requirements

Windows XP/Windows 7 (32- and 64-bit), or Windows Server  
2003, 2008, or 2008 SR2

### Configuration method

#### Network

Tofino Configurator uses secure communications to configure  
the Tofino security appliance

#### Manual

Encrypted configuration files may be saved on a USB  
storage device and loaded into the Tofino security  
appliance via a secure USB port

### Operating modes

#### Test

All traffic allowed; alerts generated as per user rules

#### Operational

Traffic filtered and alerts generated as per user rules

#### Mode changes

Operating mode is controlled remotely from the free  
Tofino Configurator software

#### Audit log

Audit capabilities for tracking configuration changes

#### Security alerts

Simultaneous event logging to a remote syslog server  
and local nonvolatile memory for later download via  
network or USB storage device

### Ambient Conditions

#### Operating Temperature

-40°C to +70°C  
(IEC 60068-2-2 Dry Heat Test +85°C 16 hours)

#### Storage/Transport Temperature

-40°C to +85°C

#### Relative Humidity (non-condensing)

10% to 95%

#### Conformal Coating

Option available as (please see ordering information)

### Mechanical Construction

#### Dimensions (WxHxD)

60 x 145 x 125 mm

#### Weight

660 g

#### Protection Class

IP20

#### Mounting

DIN Rail 35 mm

### Approvals

For the latest certificate information,  
see [www.mtl-inst.com/certificates](http://www.mtl-inst.com/certificates)

### Reliability

#### MTBF

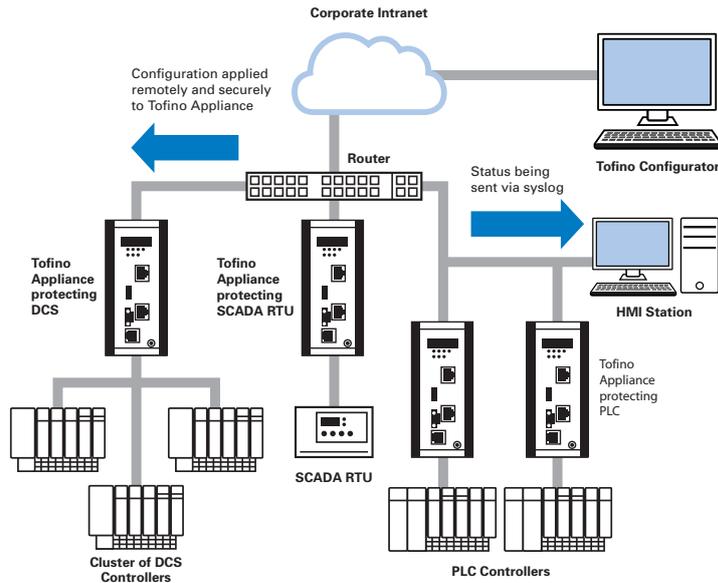
74.5 years

#### Warranty

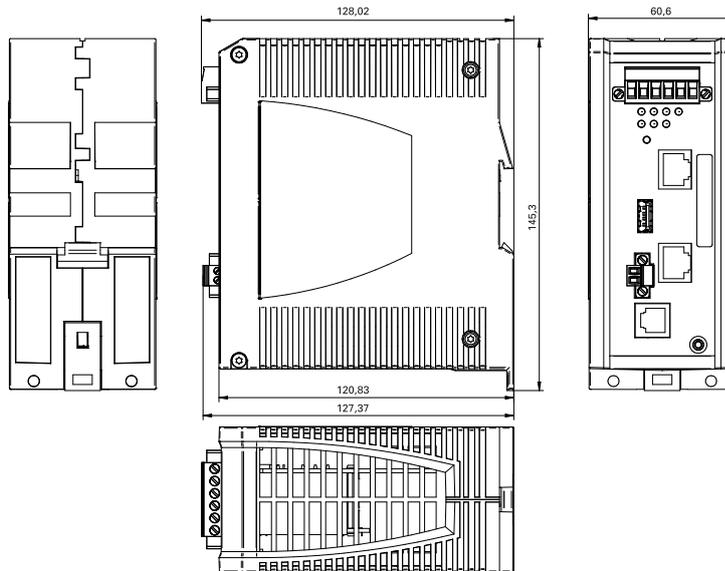
5 years (standard)

# MTL 9202-ETS

August 2024



## DIMENSIONS



## ORDERING INFORMATION

### Tofino Hardware

PART NUMBER	DESCRIPTION
9202-ETS	MTL Tofino SA Copper only
9202-ETS-MC-SC	MTL Tofino SA Multi-mode Fibre & Copper
9202-ETS-MM-SC	MTL Tofino SA Multi-mode Fibre only
9202-ETS-SC-SC	MTL Tofino SA Single-mode Fibre & Copper

**Add - CC** to above part numbers for Conformally Coated version for installations in corrosive environments

### Tofino LSM

PART NUMBER	DESCRIPTION
9522-MBT	MTL Tofino Modbus TCP Enforcer LSM
9522-OPC	MTL Tofino OPC Enforcer LSM
9522-EIP	MTL Tofino Ethernet IP Enforcer LSM
9522-DNP3	MTL Tofino DNP3 Enforcer LSM
9522-IEC104	MTL Tofino IEC 104 Enforcer LSM
9522-GOOSE	MTL Tofino IEC 61850 GOOSE Enforcer LSM



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