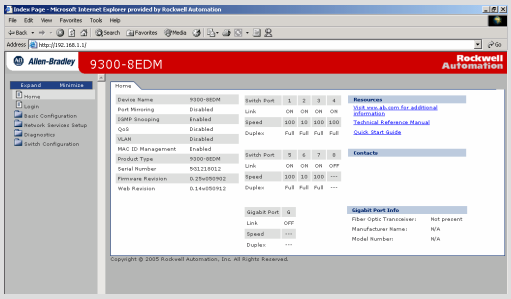
PRODUCT PROFILE

ETHERNET DIAGNOSTIC MODULE

The Ethernet Diagnostic Module Features Minimum Configuration and Maximum Functionality.



- Web-based configuration utility
- User Manual embedded in firmware
- Eight 10/100 BaseT Ethernet port
- 8 to 48 VDC
- Port mirroring

Combine the Ethernet Diagnostic Module with a Logix controller to:

- Identify and restrict unauthorized users
- Monitor traffic levels port by port
- Identify network configuration changes

GAIN CONTROL OF YOUR ETHERNET NETWORK

Maximize your network uptime and overall productivity by monitoring network status through the control system.

With the Allen-Bradley Ethernet Diagnostic Module (9300-8EDM), you now have real-time access to critical network data through your Logix-based control system. The Ethernet Diagnostic Module appears as standard I/O, seamlessly integrating into Logix programs and updating tags automatically. This allows you to continuously monitor your network for configuration changes, traffic overload, and unauthorized access — and proactively implement changes to prevent a significant reduction in performance or unplanned downtime event.

CONNECTIVITY TO LOGIX CONTROLLERS

The Ethernet Diagnostic Module easily connects with Logix controllers. When the module is installed in the I/O configuration, the controller automatically scans and identifies it (Figure 1). Once the module is identified, network status is easily viewed in ladder logic (Figure 2) and is automatically updated in tags (Figure 3).

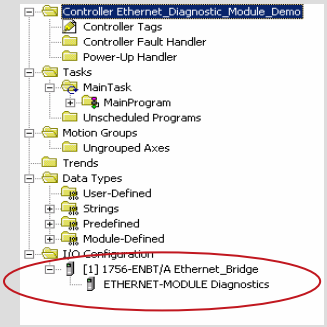


Figure 1.

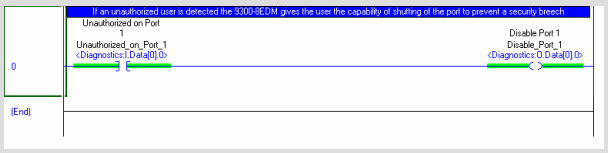
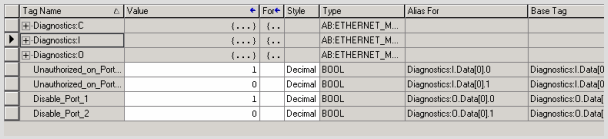


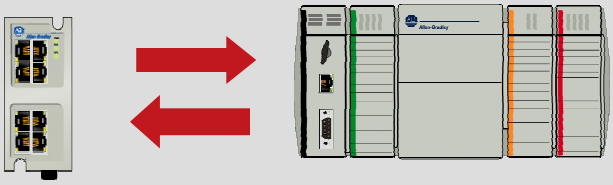
Figure 2.



Tag Name	Value	Force	Style	Type	Alias For	Base Tag
Diagnostics:C	{...}	{..		AB:ETHERNET_M...		
Diagnostics:I	{...}	{..		AB:ETHERNET_M...		
Diagnostics:O	{...}	{..		AB:ETHERNET_M...		
Unauthorized_on_Port...	1		Decimal	BOOL	Diagnostics:I.Data[0].0	Diagnostics:I.Data[0
Unauthorized_on_Port...	0		Decimal	BOOL	Diagnostics:I.Data[0].1	Diagnostics:I.Data[0
Disable_Port_1	1		Decimal	BOOL	Diagnostics:O.Data[0].0	Diagnostics:O.Data[
Disable_Port_2	0		Decimal	BOOL	Diagnostics:O.Data[0].1	Diagnostics:O.Data[

Figure 3.

Inputs:
- Unauthorized MAC ID
- Traffic Variation Alarms
- Link Active on Port
- Multicast Connections
- TCP Connections
- Scaled Bandwidth per Port



Outputs:
- Disable Communications to all Ports
- Disable communications to a Single Port

SPECIFICATIONS

ENVIRONMENT	
Operating Temperature	0 to 60°C (32 to152 °F)
Storage Temperature	-20 to 70°C (-4 to 158 °F)
COMPLIANCE	UL/CUL Certified, ODVA Ethernet/ IP Conformance Tested
POWER REQUIREMENTS	8 to 48VDC (230mA @24VDC typical, 300mA @24VDC max)
NETWORK PORTS	8 RJ-45 10/100 full/half duplex ports
PROTOCOLS	TCP/ IP, Ethernet/ IP, Telnet, Http, DHCP, Bootp, FTP, IGMP
ETHERNET/ IP FEATURES	MAC ID Management, Bandwidth Alarming, Port Control, Link Status, Scaled Bandwidth Information, Connections Active
OTHER SWITCH FEATURES	VLAN, IGMP Snooping, IGMP Query V1&V2, DHCP Server, Bootp Server, QoS, Port Mirroring
OPTIONS	9300-FTI 1 Gigabit Fiber Optic Transceiver
DIMENSIONS	2.0” x 4.5” x 3.5”, 5.08 cm x 11.43 cm x 8.89 cm

EtherNet/IP™ conformance tested

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