

BMXNOC0401

Modicon M340 Ethernet Network Module

PUBLISHED IDENTITY

Schneider Electric BMXNOC0401 is a Modicon M340 Ethernet TCP/IP network module with four 10/100 Mbps RJ45 ports. It supports both EtherNet/IP and Modbus TCP I/O scanning and messaging.

Technical snapshot

Product platform	Modicon M340 automation platform
Module type	Ethernet TCP/IP network module
Copper Ethernet ports	4 RJ45 ports
Port speed	10/100 Mbit/s
Network services	EtherNet/IP and Modbus TCP I/O scanner and messaging
Switch function	Embedded four-port switch
Redundancy service	RSTP supported
Management services	SNMP and port mirroring

Verified related ApterPower product pages

Schneider Electric 140CPU53414A

Schneider Electric 140XBP01000

Engineering data

Official evidence organized for exact-model review

Product platform	Modicon M340 automation platform
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Management services	SNMP and port mirroring

Transparent Ready class	B30
Rack supply	Internal power supply via rack
Current consumption	555 mA at 3.3 V DC
Operating temperature	0 to 60 °C
Relative humidity	10 to 95% without condensation
Protection rating	IP20
Protective treatment	TC

EVIDENCE BOUNDARY

Verify the complete BMXNOC0401 identity, Modicon M340 rack position, firmware and recorded Ethernet configuration before installation.

Applications and system role

Four distinct documented operating contexts

M340 DEVICE INTEGRATION

Links a controller with approved Modbus TCP and EtherNet/IP field devices.

INDUSTRIAL ETHERNET RING

Participates in a documented RSTP topology through the integrated switch ports.

NETWORK DIAGNOSTICS

Supports status review, SNMP supervision and controlled port mirroring during troubleshooting.

SCANNER-LED DATA EXCHANGE

Executes saved I/O scanner and messaging tables after the engineering configuration is restored.

Integration control

The module is powered internally from the rack and includes RUN, ERR, Ethernet, module-status and network-status indications for commissioning and diagnostics. Preserve the approved IP parameters, scanner tables, topology, firmware and port assignments before exchange. Restore the configuration with the engineering project, then confirm ring state, device connections and controller data exchange under the plant acceptance plan.

Verified related ApterPower product pages

[Schneider Electric 140NOE77110](#)

[Schneider Electric 140DDO36400](#)

Technical questions

Complete model-specific answers from the approved evidence set

What role does Schneider Electric BMXNOC0401 serve in a Modicon M340 system?

Schneider Electric BMXNOC0401 provides the controller's Ethernet TCP/IP network interface and integrated four-port switch.

Which industrial protocols can Schneider Electric BMXNOC0401 scan and message?

Schneider Electric BMXNOC0401 supports I/O scanning and messaging for both EtherNet/IP and Modbus TCP.

How many copper network ports are built into Schneider Electric BMXNOC0401?

Schneider Electric BMXNOC0401 contains four RJ45 ports that operate at 10 or 100 Mbit/s.

Does Schneider Electric BMXNOC0401 support a redundant Ethernet topology?

Schneider Electric BMXNOC0401 supports Rapid Spanning Tree Protocol for an engineered redundant network arrangement.

Which management functions are available on Schneider Electric BMXNOC0401?

The Schneider Electric BMXNOC0401 service set includes SNMP network administration and port mirroring.

How is Schneider Electric BMXNOC0401 powered in the controller rack?

Schneider Electric BMXNOC0401 receives its internal supply from the Modicon M340 rack and draws 555 mA at 3.3 V DC.

What environmental range applies to Schneider Electric BMXNOC0401 operation?

Schneider Electric BMXNOC0401 is specified for 0 to 60 °C and 10 to 95 percent relative humidity without condensation.

Which checks complete commissioning of Schneider Electric BMXNOC0401?

Commissioning should confirm the saved IP and scanner configuration, switch topology, status LEDs and every assigned protocol connection on Schneider Electric BMXNOC0401.

Product precautions

Eight aligned controls before return to service

1

Record the complete Schneider Electric BMXNOC0401 marking and rack position.

2

Back up the Control Expert project, IP settings and scanner tables before work.

3

Place the controller and connected process network in the approved maintenance state.

4

Label all four RJ45 links and document the original switch topology.

5

Verify firmware, RSTP settings and every EtherNet/IP or Modbus TCP assignment.

6

Inspect rack connectors, cable latches and shielding before seating the module.

7

Review RUN, ERR, ETH STS, MS and NS indications after configuration transfer.

8

Prove every configured device connection and data exchange before release.

Verified related ApterPower product pages

Schneider Electric 140DDO35301

Schneider Electric 140DDI35310

Schneider Electric 140CRA21220

Schneider Electric 140CRP93200

Evidence and support

Manufacturer references, related products and direct contact

Manufacturer evidence used

- Schneider Electric BMXNOC0401 product data sheet, published August 10, 2022.
- Schneider Electric Modicon M340 BMXNOC0401 Ethernet communication module user guide, document S1A34012.
- Schneider Electric BMXNOC0401 communication-service and environmental specification tables.

Verified related ApterPower product pages

Schneider Electric 140XCA71706

Schneider Electric 140CPU43412A

Schneider Electric 140ACO02000

Schneider Electric 140ARI03010C

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Schneider Electric 140AVO02000

Schneider Electric 140CPU43412