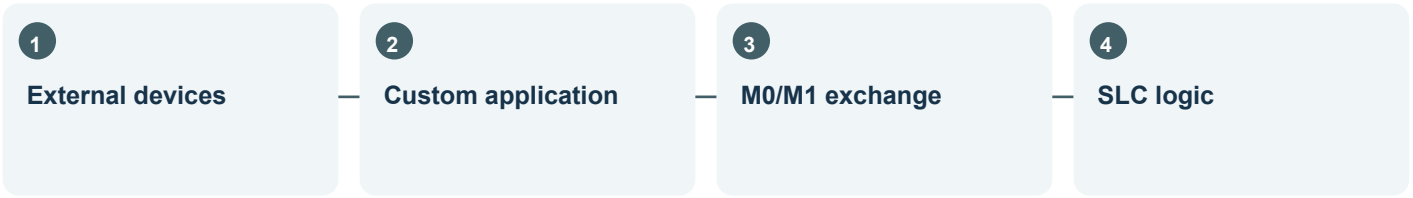
ProSoft Technology MVI46-ADMNET

01 Application Development Ethernet Communication Module

ProSoft Technology MVI46-ADMNET places custom communication logic beside the SLC processor, using rack data transfer and application-specific network handling as separate integration layers.



Rack and processor exchange

The module occupies a compatible SLC rack position and exchanges application data through M0/M1 files and associated ladder logic. It is intended for a local or supported extended rack, not an arbitrary remote I/O location. Record the rack position and processor interface logic before changing the communications application or hardware.

Application and physical interfaces

Custom applications are built for the module development environment. The CFG port supports service access, while the application ports and Ethernet interface serve configured external communications. Electrical serial modes require the appropriate hardware selection and wiring; changing a software protocol cannot correct a mismatched RS-232, RS-422 or RS-485 connection.

Software continuity and diagnostics

The installed application, its data map and the SLC ladder program together define useful operation. A link indicator proves only part of that path. Preserve the executable, source or service package and settings, then validate both successful transactions and loss-of-communication handling before returning the equipment to production.

Module-specific hardware ratings are from the MVI46-ADMNET data sheet; the excerpt covers applicable development and SLC integration topics.

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02 Ratings, interfaces and applicable limits

Rack allocation	One SLC 1746 slot
Processor exchange	M0/M1 files with ladder interface
Ethernet interface	RJ45
Serial application ports	2
Serial electrical modes	RS-232 / RS-422 / RS-485, jumper-selected
Service port	CFG, RS-232
Backplane load	800 mA at 5 V DC
Operating temperature	0 to 60 °C

Configuration-specific engineering data

Operating environment	DOS 6-XL
Flash ROM	896 KB
RAM	640 KB
Relative humidity	5 to 95%, non-condensing

Applying these values to the complete installation

Module-specific hardware ratings are from the MVI46-ADMNET data sheet; the excerpt covers applicable development and SLC integration topics. The executable and matching processor interface are essential parts of the installed function.

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03 Application decisions and system boundaries

01 Custom Ethernet integration

Implement the required application protocol and validate the data exchange.

02 Serial field-device gateway

Match electrical mode, protocol and port wiring to the connected equipment.

03 SLC data-map integration

Coordinate M0/M1 exchange with the installed ladder program.

04 Legacy application migration

Retain application assets and assess a replacement platform independently.

Application ownership

The executable and matching processor interface are essential parts of the installed function.

Electrical mode

Serial jumpers and wiring must match the field interface before protocol diagnosis.

Stale-data response

Validate timeout and communication-loss handling as well as successful transfers.

Replacement boundary: Review the complete installed circuit and companion hardware before selecting a replacement; a similar reference alone does not establish interchangeability.

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04 Eight questions beyond the specification table

1 Why can Ethernet link be healthy while MVI46-ADMNET transfers no useful SLC data?

Link state does not prove application transactions or the M0/M1 ladder exchange. Trace a known value through the network application and processor data map.

2 Can MVI46-ADMNET be installed in any remote SLC I/O location?

No. Verify its supported local or extended-rack arrangement. A matching slot connector alone does not establish processor communication support.

3 What must be backed up before replacing MVI46-ADMNET?

Retain the application executable, configuration, available development package and matching ladder/data map. Hardware replacement alone does not reconstruct a custom application.

4 Why can changing a protocol setting fail to restore a serial port on MVI46-ADMNET?

The hardware electrical mode and wiring may not match the device. Verify jumpers, pin assignment and RS-232/422/485 selection separately from protocol settings.

5 How should data alignment be checked on MVI46-ADMNET?

Transfer known patterns and compare word boundaries, ordering and values at both ends of the M0/M1 interface. Correct the data map before enabling process commands.

6 What distinguishes the CFG port from application ports on MVI46-ADMNET?

CFG is used for service access; the application ports implement configured field communications. Confirm which connector is being tested before changing serial wiring.

7 Why must communication-loss behavior be tested with MVI46-ADMNET?

A successful transaction does not prove safe handling of stale data. Interrupt the test connection under controlled conditions and verify application and PLC timeout responses.

8 Does discontinuation make another module a direct replacement for MVI46-ADMNET?

No. The custom application and SLC interface must be assessed for migration. Verify platform fit and rebuild or adapt the application only through a qualified engineering review.

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05 Selection boundary and service reference

Identify the offered assembly

Confirm MVI46-ADMNET hardware, executable and SLC mapping. Request available label and connector photos. Compare the offered MVI46-ADMNET with the installed hardware and applicable ProSoft Technology requirements.

Lifecycle and replacement assessment

Discontinued. Continued service depends on the installed hardware and availability of the application and maintenance assets. Review the complete installed circuit and companion hardware before selecting a replacement; a similar reference alone does not establish interchangeability.

Companion equipment and scope

Confirm the module; application software, cables and development tools only when itemized. A related product is not an automatic substitute; assess the installed interface and application requirements independently.

Engineering handover

Validate timeout and communication-loss handling as well as successful transfers. Retain the complete hardware identities, approved configuration and accepted test outcome with the installation record.

Related product references

ProSoft MVI69-ADMNET

ProSoft MVI69-MNETC

ProSoft MVI56-MBP

Technical basis: ADM Developer Guide, August 6, 2021. Apter Power technical synthesis for this product configuration.