

Linux Development Module for ControlLogix[®] (MVI56E-LDM) FAQ

Why did we create the Linux Development Module for ControlLogix[®]?

The Linux Development Module for ControlLogix[®] was created to allow users/developers to write a custom application (in C/C++ programming language) that interfaces to the Ethernet ports, serial ports, and storage media (Compact Flash) of the unit.

How does the module communicate with the ControlLogix[®] processor?

A backplane API is provided to allow the application to read/write to the ControlLogix[®] processor.

Are there any tools to assist me in developing the module?

Yes. A Linux Virtual Machine comes on a separate development kit DVD. The Virtual Machine contains the popular Eclipse IDE and a preinstalled toolchain and libraries, as well as Ethernet & serial port example applications.

What are some typical applications for the module?

1. When a ControlLogix[®] system needs to interface with a proprietary/custom protocol.
2. When complex functions or calculations are required that will not adversely affect the ControlLogix[®] processor scan time.

What determines my level of success with the module?

The level of success with the LDM will be determined by:

- Developer's knowledge and experience with the C/C++ programming language
- Developer's knowledge and experience with the embedded Linux environment
- Developer's knowledge and experience with the ControlLogix® system and RS Logix™ 5000/Studio 5000™

What Linux distribution is used?

Timesys

Need more information?

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Frequently Asked
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