



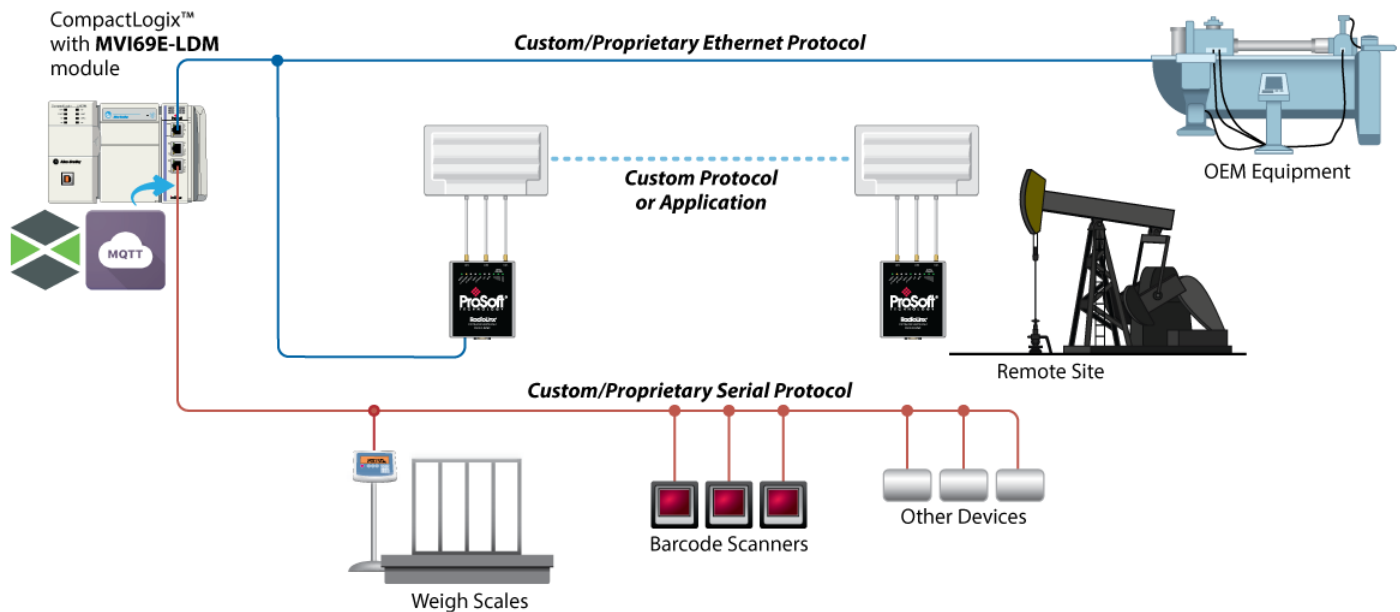
# DATASHEET

## MVI69E-LDM

Linux Development Module for CompactLogix™

ProSoft Technology®

The MVI69E-LDM module allows users to develop and deploy C/C++ custom algorithm applications for CompactLogix™ systems. Users are also able to create drivers for specialty Ethernet and Serial end-devices. The Linux Development module comes with a built-in API for backplane communications to the processor. With the separate development kit DVD, you are the developer who controls exactly what this module can and cannot do.



## Features

- ❖ Ideal for custom algorithm applications
- ❖ One independent Ethernet port, and two independent, isolated, serial ports (RS232/422/485)
- ❖ Industrial fan-less design
- ❖ Built-in API included for backplane communications to the processor
- ❖ Linux Virtual Machine (VM) and development environment provided on our website
- ❖ VM contains preinstalled toolchain and libraries
- ❖ VM contains the popular Eclipse IDE
- ❖ Ethernet & multi-serial port example applications provided on VM

## CPU, Memory and OS Specifications

Specification	Description
CPU	400MHz ARM9 G20
Operating System	Linux (kernel 2.6.33.7)
Linux Distribution	TimeSys
System Memory	64MB SDRAM
Flash Memory	256MB NAND Flash

## General Hardware Specifications

Specification	Description
Backplane Current Load	500 mA @ 5 Vdc 3 mA @ 24 Vdc
Operating Temperature	0°C to 60°C (32°F to 140°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Shock	15g operational 30g non-operational Vibration: 5 g from 10 to 150 Hz
Relative Humidity	5% to 95% (without condensation)
LED Indicators	(ETH) Application driven (P1) Application driven (P2) Application driven (CFG) Application driven (BP) Application driven (OK) Application driven

### Ethernet ports

1 Ethernet Port	10/100 Mbps port, RJ45 Connector Link and Activity LED indicators Auto-sensing crossover cable detection
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### Serial ports

Full hardware handshaking control, providing radio, modem, and multi-drop support	
2 Serial Applications Ports	RJ45 (DB-9M with supplied adapter cable) Configurable RS-232 hardware handshaking 500V Optical isolation from backplane RS-232, RS-422, RS-485 jumper-select, each port RX (Receive) and TX (Transmit) LEDs, each port
Shipped with Unit	(2) RJ45 to DB-9M cables (2) DB9 to screw terminal adapters (1) Null modem cable  LDMdevKit - Linux Development Module (Available as a Virtual Machine (VM) for download from our website)

The sample ladder and LDM development kit can be downloaded from our website: [www.prosoft-technology.com](http://www.prosoft-technology.com)

Specification	Description
Sample code included in VM	
Ethernet Client and Server	Sample code showing how to interact with the onboard Ethernet ports
Serial	Sample on how to interact with the serial port, transmit/receive ASCII
LED	Sample code to control the module's LEDs
Backplane	The example code, used with the sample ladder, shows how to interact with the backplane. It performs block transfer communication, and interacts with the LEDs.
Sample code available on ProSoft website	
ThingWorx	Sample code to enable direct Thingworx connectivity
MQTT	Sample code to enable connectivity to a generic-type MQTT enabled system

## Agency Approvals and Certifications

Please visit our website: [www.prosoft-technology.com](http://www.prosoft-technology.com)



## Additional Products

ProSoft Technology® offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms. For a complete list of products, visit our website at: [www.prosoft-technology.com](http://www.prosoft-technology.com)

## Ordering Information

To order this product, please use the following:

## Linux Development Module

MVI69E-LDM

LDMdevKit – Linux Development Module Development Kit (not included in MVI69E-LDM box)

To place an order, please contact your local ProSoft Technology distributor. For a list of ProSoft Technology distributors near you, go to: [www.prosoft-technology.com](http://www.prosoft-technology.com) and select *Where to Buy* from the menu.

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