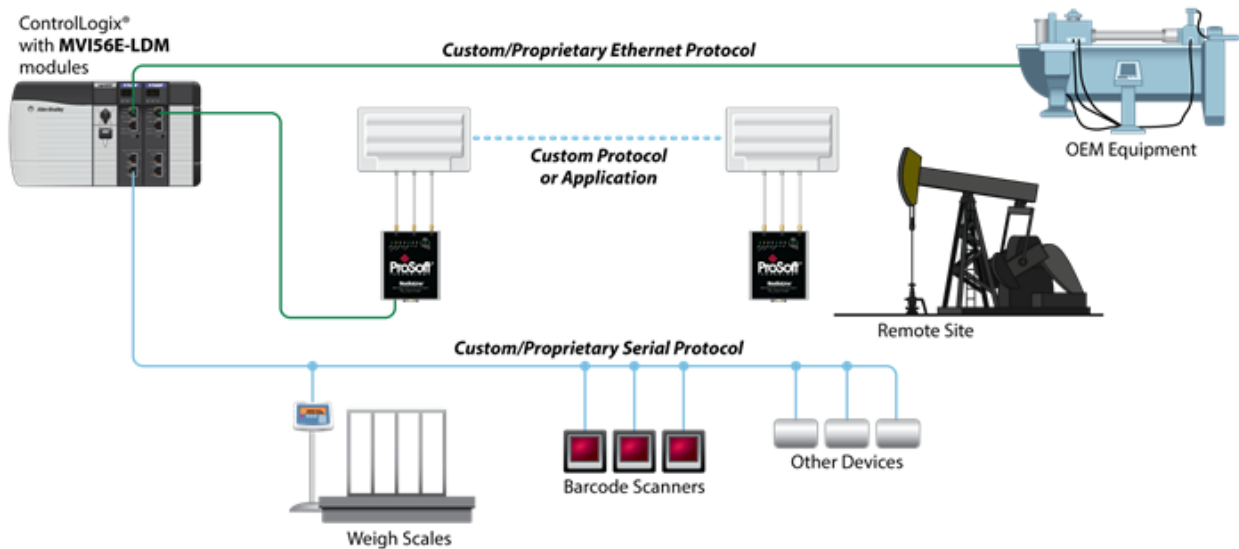


DATASHEET

Linux Development Module MVI56E-LDM

The MVI56E-LDM module allows users to develop and deploy C/C++ custom algorithm applications for ControlLogix 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
- ◆ Two independent Ethernet ports, and two independent, isolated, serial ports (RS232/422/485)
- ◆ Scrolling LED display for custom messages (alarms, status, etc.)
- ◆ Industrial fan-less design
- ◆ Built-in API included for backplane communications to the processor
- ◆ Linux Virtual Machine (VM) and development environment provided on separate development kit DVD
- ◆ VM contains preinstalled toolchain and libraries
- ◆ VM contains the popular Eclipse IDE
- ◆ Multiple Ethernet and serial port example applications provided

CPU, Memory and OS Specifications

Specification	Description
CPU	400 MHz ARM9 G20
Operating System	Linux (kernel 2.6.33.7)
Linux Distribution	Timesys
System Memory	64 MB SD RAM
Flash Memory	256 MB NAND Flash
Compact Flash	16 GB max supported (not provided)

General Hardware Specifications

Specification	Description
Backplane Current Load	800 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	30 g operational 50 g non-operational Vibration: 5 g from 10 to 150 Hz
Relative Humidity	5% to 95% (with no condensation)
LED Indicators	(ERR) Application driven (APP) Application driven (OK) Application driven
4-Character, Scrolling, Alpha-Numeric LED Display	Application driven – possible uses are: Module Version, IP, Application Port Setting, Status/Error Information
Ethernet ports	
2 Ethernet Ports	10/100 Mbps ports, RJ45 Connector Link and Activity LED indicators Auto-sensing crossover cable detection
Serial ports	
Full hardware handshaking control, providing radio, modem, and multi-drop support	
Serial Applications Ports	RJ45 (DB-9M with supplied adapter cable) Configurable RS-232 hardware handshaking 500 V Optical isolation from backplane RS232/422/485 jumper-select, each port RX (Receive) and TX (Transmit) LEDs, each port
Shipped with Unit	RJ45 to DB-9M cables for each serial port DB9 to screw terminal adapter Ethernet Straight-Thru Cable
Not shipped with Unit	LDMdevKit - Linux Development Module Development Kit must be ordered separately

Agency Approvals and Certifications

Agency

ATEX

CE

CSA, CSA CB Safety

cULus

GOST-R

Lloyds



Where Automation Connects™ Global Distribution

ProSoft Technology® products are distributed and supported worldwide through a network of over 500 distributors in over 50 countries. Our knowledgeable distributors are familiar with your application needs. For a complete list of distributors, go to our web site at: www.prosoft-technology.com

Ordering Information

To order this product, please use the following:

Linux Development Module

MVI56E-LDM

LDMdevKit – Linux Development Module Development Kit (not included in MVI56E-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 and select *Where to Buy* from the menu.

Copyright © 2015 ProSoft Technology, Inc.
All Rights Reserved. 4/29/2015

Specifications subject to change without notice.