DeltaV™ M-series Virtual I/O Module 2

- Non-intrusive DeltaV™ I/O simulation
- Powerful integration solution
- Easy to use
- Modular, flexible packaging



The M-series Virtual I/O Module 2 provides DeltaV™ I/O simulation and a high speed Ethernet I/O device integration platform.

Introduction

The DeltaV™ M-series Virtual I/O Module 2 (VIM2) provides non-intrusive simulation of the DeltaV M-series I/O Cards and digital bus field devices for process simulation when used with DeltaV Mimic software. DeltaV control strategies and system configurations can be fully evaluated with this powerful simulation interface.

The VIM2 also provides an interface to Ethernet I/O networks and devices that use e.g., the Modbus TCP or EtherNet/IP protocol drivers. DeltaV M-series controllers can read and write signals from plant floor devices connected to Ethernet I/O networks such as PLC's, motor control centers, and weigh scales.

Benefits

Non-Intrusive DeltaV I/O Simulation

Use the VIM2 in conjunction with DeltaV Mimic to simulate your DeltaV M-series I/O and digital bus field devices.

- **Supports DeltaV I/O Modules –** Provides completely non-intrusive simulation of all DeltaV M-series I/O Modules. DeltaV configuration can be fully evaluated without modifying the control strategies.
- **Digital Bus Support –** Provides simulation of all DeltaV digital busses and FOUNDATION Fieldbus function blocks. Supports FOUNDATION Fieldbus control simulation for the field configuration testing.
- **Powerful Simulation Solution –** Provides full simulation of up to 64 DeltaV I/O modules per controller. Simulation execution is fast and efficient; the DeltaV controller thinks it is talking with real IO.

Ordering Information

Description	Model Number
M-series Virtual I/O Module 2	VE4026
Redundant M-series Virtual I/O Modules (Includes two VIM2s and one redundancy link cable)	VE4027
Modbus TCP/IP Master Driver	IOD-4111
EtherNet/IP Scanner Driver	IOD-4112
ODVA EtherNet/IP Protocol Driver	IOD-4116

DeltaV Mimic is licensed on a Flexible Subscription Unit (FSU) basis. An FSU is a currency that can be used to access any Mimic feature licensed on an FSU basis, with each feature requiring its own number of FSUs. The FSU subscription is offered in one-year, three-year, and five-year terms. To purchase, extend, or expand a license, please contact your Emerson Sales Representative.

Related Products

- DeltaV Mimic
- Workstations and Servers for the DeltaV DCS
- DeltaV M-Series I/O Subsystem Horizontal Carriers
- DeltaV PK Controller
- DeltaV PK Flex Controller
- DeltaV MX Controller
- DeltaV MQ Controller

Prerequisites

- One power/controller carrier per VIM2. Please refer to the M-series Horizontal Carriers product data sheet for details.
- One dedicated system power supply per VIM2. Please refer to the M-series Power Supplies product data sheet for details.
- To use for I/O Simulation, DeltaV Mimic and DeltaV Railbus Driver features must be purchased.
- To use for Ethernet I/O integration, an Ethernet I/O driver must be purchased. Each operating VIM must be licensed independently (e.g., two licenses are required for a single redundant pair of VIMs). Technical support for the Ethernet I/O drivers is available.

System Compatibility

- M-series VIM can physically be replaced with M-series VIM2. However, the VIM2 is not a functional drop-in replacement for the VIM.
- Existing Drivers from M-series VIMs will not work with the M-series VIM2 and need to be converted before they can be reused.