

GE Fanuc IC694DSM314

<http://www.pdfsupply.com/automation/ge-fanuc/rx3i-pacsystem/IC694DSM314>

Rx3i PacSystem

MOTION CONTROLLERMODULE 1-2 axis Digital Servo or 1-4 Axis
Analog Servo IC694D IC694DS IC694DSM

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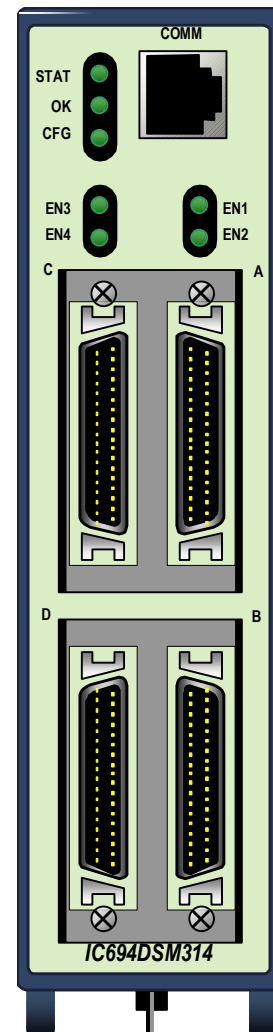
Motion Mate Module: IC694DSM314

The Motion Mate Module, IC694DSM314, is a multi-axis motion control module. It supports two control loop configurations:

- Standard Mode (Follower Control Loop Disabled)
- Follower Mode (Follower Control Loop Enabled)

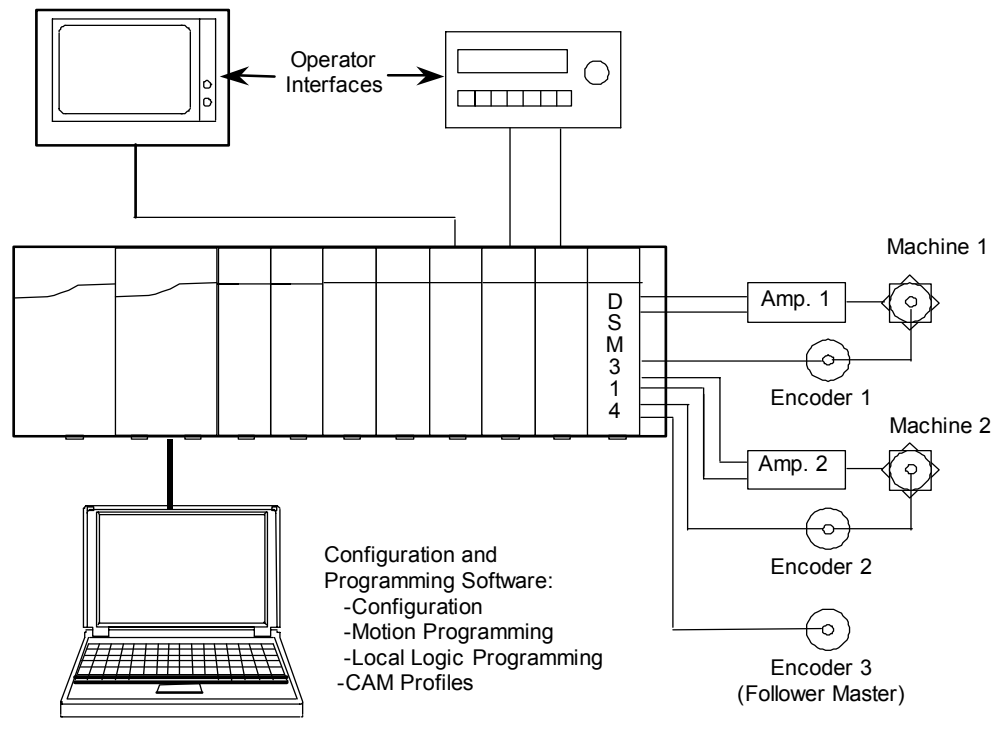
The DSM314 Module can be used with GE Fanuc α Series and β Series digital servo amplifiers and motors. It can also be used with analog GE Fanuc SL Series analog servos and third-party analog velocity command interface and analog torque command interface servos. Module features include:

- Velocity Feed forward and Position Error Integrator
- High resolution of programming units
- Simple and powerful motion program instruction set
- Simple 1 to 4-axis motion programs
- Non-volatile storage for 10 programs and 40 subroutines
- Single-point-of-connect for programming and configuration.
- Firmware is stored in flash memory and is updated via COMM port.
- Recipe programming using command parameters.
- Electronic CAM capability
- Home and overtravel switch inputs for each Servo Axis
- Two Position Capture Strobe Inputs for each axis
- 5v , 24v and analog I/O for use by PLC
- Incremental Quadrature Encoder input on each axis for Encoder/Analog mode
- 13 bit Analog Output can be controlled by PLC or used as Digital Servo Tuning monitor
- High speed digital output (four each 24V and four each 5V) via on-board Local Logic control



Overview

The DSM314 integrates high-performance motion control with the logic-solving functions of the RX3i PACSystem.



For more information about configuring and installing the DSM314 module, see the *Motion Mate User's Manual*, GFK-1742. For details about interfacing the DSM314 to the GE Fanuc SL Servo products, refer to the manual, *SL Series Servo User's Manual*, GFK-1581.

Specifications: DSM314

Power Supply Voltage	5 VDC from backplane
Power Supply Current Draw by DSM	800 mA plus encoder supply current (see next item).
Available +5V Current/Module to supply external encoder, if used	500 mA (if used, must be added to module +5v current draw)
Number of DSM314 Modules in PACSystems RX3i Main Backplane	Up to 5 DSM314 modules in RX3i Main Backplane with Power Supply PWR040
Number of DSM314 Modules in PACSystems RX3i Expansion/Remote Backplane	<ul style="list-style-type: none"> ▪ 3 DSM314 modules in expansion/remote backplane with PWR321 ▪ 6 DSM314modules in remote backplane with PWR330/331 ▪ 7 DSM314modules in expansion backplane with PWR330/331

Features: DSM314

LEDs

There are seven LED status indicators on the DSM314 module:

The **STAT** LED is normally On. When the LED is OFF, the DSM314 is not functioning. Slow blinking indicates status errors. Rapid blinking indicates errors that cause the servo to stop.

The **OK** LED indicates the current status of the DSM314 module. When the LED is steady On, the module is functioning properly. When the LED is Off, the module is not functioning.

The **CFG** LED is On when a module configuration has been received.

The **EN1** through **EN4** LEDs are On if the Axis 1 through Axis 4 Drive Enable relays are on.

COMM Connector

The COMM port is an RJ-11 connector, used to download firmware updates to the module.

I/O Connectors

The DSM314 is a two-axis digital servo/one axis analog velocity interface or four-axis analog servo (Torque Mode and/or Velocity Mode) controller with four 36-pin I/O connectors labeled A, B, C, and D. All four connectors provide similar analog and digital I/O circuits.

Shield Ground Connection

The DSM314 must be connected to frame ground via the ground terminal on the bottom of the module

