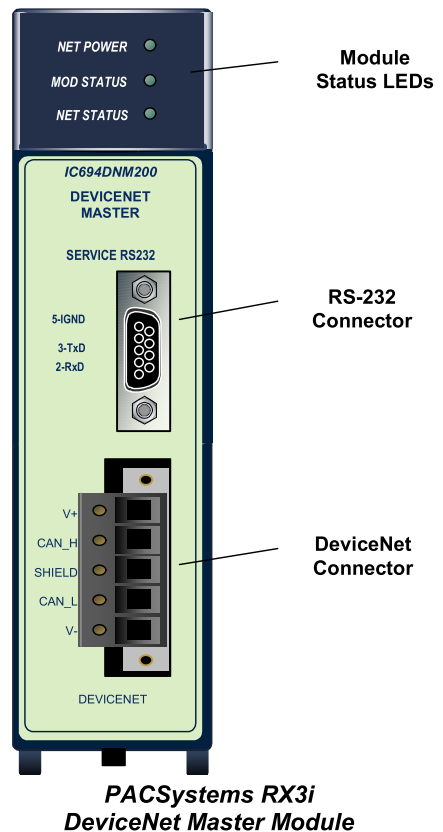


DeviceNet Master Module

The DeviceNet Master Module allows the control system CPU to send and receive data over a DeviceNet network. It can act as master for up to 63 slaves on the DeviceNet network. It can also be configured to simultaneously function as a slave to another master on the bus.

The module's three DeviceNet-compliant LEDs show its operating and communications status. The RS-232 serial port (a 9-pin male D-connector) is used for a computer connection during firmware upgrades. The DeviceNet connector is a removable spring-clamp terminal. It provides bus continuity and can be removed from the module without disrupting bus operation.

The RX3i and Series 90-30 DeviceNet Master Modules are identical except for their plastic housing.



Features

- Bus communications at all standard DeviceNet data rates (125k, 250k, 500k baud)
- Up to 255 bytes input data transfer and 255 bytes output data transfer per slave and up to 3972 bytes of input data transfer and 3972 bytes of output data transfer per master.
- Unconnected Message Manager (UCMM) with 1 proxy connection per slave
- One or two I/O connections plus explicit messaging can be configured for each slave. Each slave I/O connection can be set up for one of the following: Poll, Strobe, Cyclic or Change-of-State (COS) operation. Typically one connection is used for Polled and the other is used for Strobe, Cyclic, or COS.
- Independent configuration of update rates for Poll and COS/Cyclic I/O devices
- Configurable global scan rate
- PLC-application initiated Explicit messaging using COMMREQs
- Status of communication with slaves available in the PLC fault table (configurable). Provides 64 network device status bits
- Configurable fault behavior on loss of communication

DeviceNet Master Module Specifications

Catalog Numbers	IC693DNM200, IC694DNM200
Description	Master Module for DeviceNet networks
Mounting Location Series 90-30	Series 90-30 main rack. Any slot except slots 0 and 1.
PACSystems RX3i	RX3i main rack. Any slot except slot 0. Series 90-30 expansion rack. Any slot except slot 0.
Environment	Storage temperature: -40°C to 85°C Operating temperature: 0°C to 60°C
Backplane Current Consumption	450mA at 5VDC (typical)
Current Consumption from DeviceNet Network	50mA at 24VDC (typical) 80mA at 24VDC (peak)
Data rates	Supports all standard DeviceNet data rates (125K, 250K, and 500K Baud)

Compatibility

- Compatible with PACSystems™ RX3i CPUs and NIUs. Requires PACSystems firmware release 3.5 or later.
- Compatible with any Series 90-30 CPU except IC693CPU321 and IC693CPU340. Configuration size is limited for CPU311/313/331, as described in chapter 3. Requires Series 90-30 release 8.0 or later CPU firmware. Release 10.6 or later is recommended, if available for the particular CPU.
- For Series 90-30 CPUs, Proficy™ Machine Edition Logic Developer PLC version 3.0 SP1 Special 2 or later is required.
- For PACSystems RX3i, Proficy™ Machine Edition Logic Developer PLC version 5.5 or later is required.
- Not compatible with the VersaPro™, Control, or Logicmaster™ programming software.
- The Series 90-30 Hand-Held Programmer (IC693PRG300) cannot be used to configure this module.