

# DATASHEET

## A-DNM DeviceNet<sup>®</sup> Monitor

The A-DNM Aparian DeviceNet<sup>®</sup> Monitor module provides real-time diagnostic information of the DeviceNet network to which it is attached and provides this information to a controller via multiple class 1 EtherNet/IP<sup>™</sup> connections.

The module makes use of fast Analog to Digital Convertors (ADC) to sample the voltage of the DeviceNet conductors (Power, Shield, CAN-H and CAN-L) with respect to V-line.

The resulting waveforms are then analyzed against several preset Warning and Alarm setpoints. The results of this analysis are made available in a Logix controller, which can then be used to alert an operator to the anomaly and/or deteriorating quality the DeviceNet network infrastructure.

The DeviceNet Monitor has two Ethernet ports and supports Device-Level-Ring (DLR) architecture.



### Features

- ♦ Can be easily connected to any existing DeviceNet network.
- ♦ Monitors up to (all) 64 nodes on a DeviceNet network, with analysis linked to specific nodes.
- ♦ Analysis results are available directly in Logix.
- ♦ Slate software provides a DeviceNet packet capture utility for better diagnosis of issues.
- ♦ Supports all DeviceNet Baud Rates (125k, 250k, 500k).
- ♦ Dual Ethernet ports which support Device-Level-Ring (DLR).
- ♦ Network Time Protocol (NTP) supported for external time synchronization.
- ♦ Small form factor – DIN rail mounted.

### Configuration

- ♦ The Slate Configuration Utility software is used for configuration and troubleshooting of the module. The stand-alone configuration utility allows users to define the setup and configuration of the DeviceNet Monitor module, connections with controllers and devices.
- ♦ The Slate Configuration Utility software can be downloaded from [www.prosoft-technology.com](http://www.prosoft-technology.com)

The DeviceNet monitor can be added to any existing DeviceNet network.

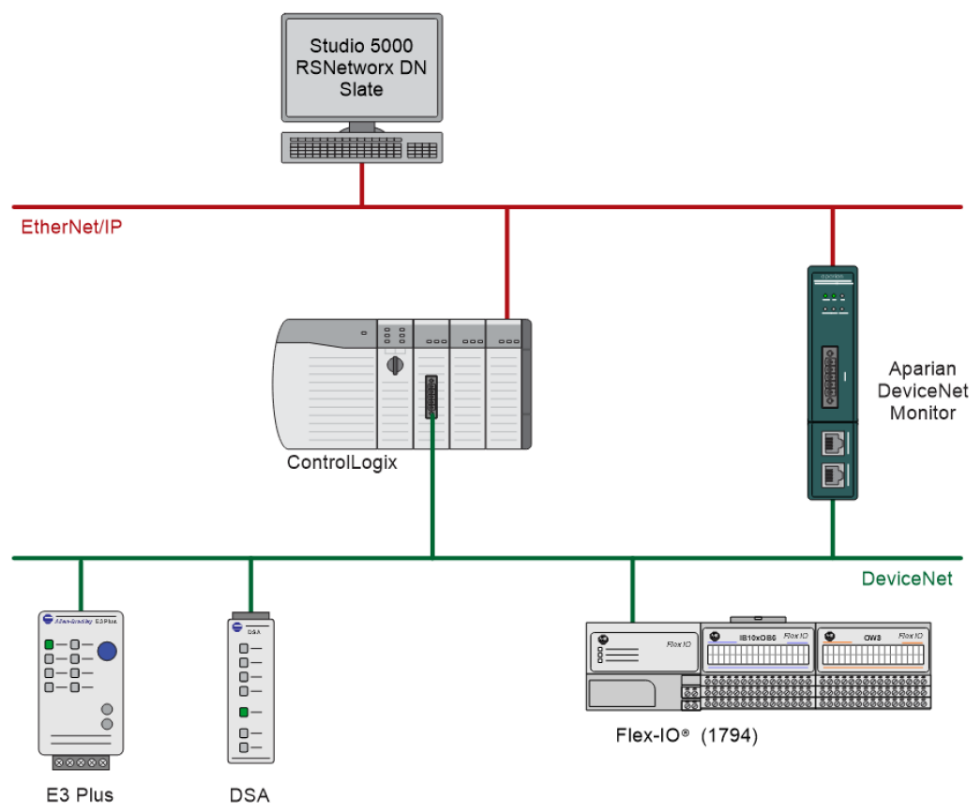


Figure 1.1 – Typical DeviceNet Scanner architecture with the DeviceNet Monitor

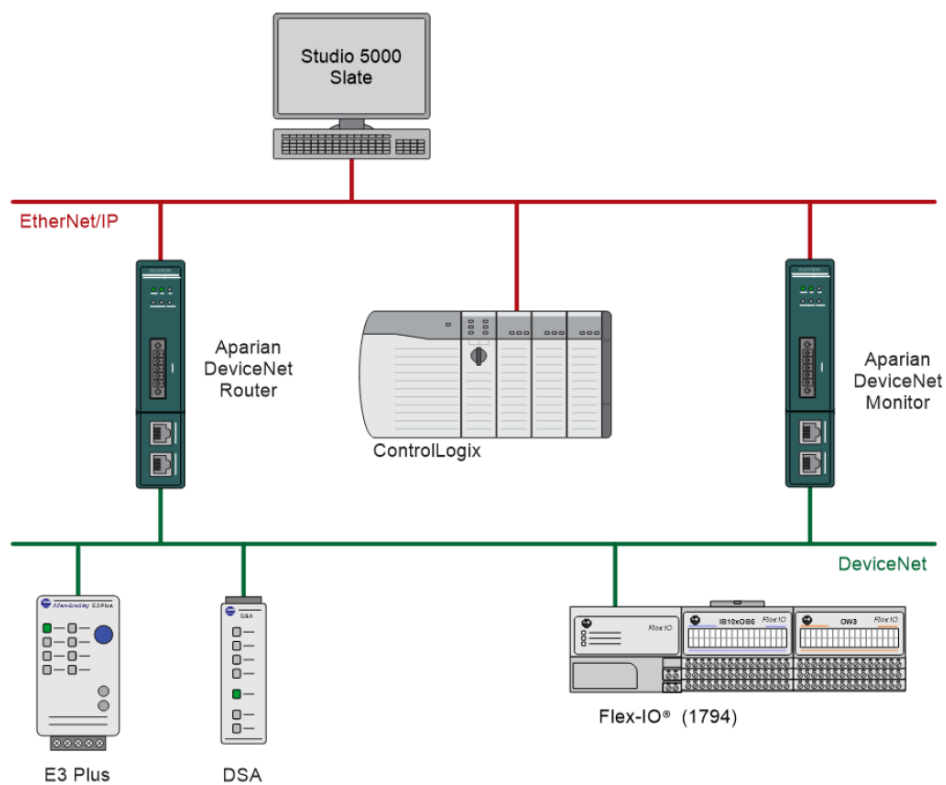


Figure 1.2 – Typical DeviceNet Device architecture with the DeviceNet Router and DeviceNet Monitor

## Electrical

| Specification         | Description                                                          |
|-----------------------|----------------------------------------------------------------------|
| Power Supply          | Input: 10 to 32 VDC                                                  |
| Power Consumption     | 4.5 W (Max.)<br>Current: 420 mA @ 10 VDC<br>Current: 185 mA @ 24 VDC |
| Dimensions            | 149.0 x 34.0 x 116.0 mm (H x W x D)                                  |
| Connector             | 3-way terminal                                                       |
| Conductors            | 24 to 18 AWG                                                         |
| Enclosure Rating      | IP20, NEMA/UL Open Type                                              |
| Temperature           | -20° to 70°C, -4° to 158°F                                           |
| Earth Connection      | Yes, terminal based                                                  |
| Emissions             | IEC61000-6-4                                                         |
| ESD Immunity          | EN 61000-4-2                                                         |
| Radiated RF Immunity  | IEC 61000-4-3                                                        |
| EFT/B Immunity        | EFT: IEC 61000-4-4                                                   |
| Surge Immunity        | Surge: IEC 61000-4-5                                                 |
| Conducted RF Immunity | IEC 61000-4-6                                                        |

## Ethernet

| Specification               | Description             |
|-----------------------------|-------------------------|
| Connector                   | RJ45                    |
| Conductors                  | CAT5 STP/UTP            |
| ARP Connections             | Max 100                 |
| TCP Connections             | Max 100                 |
| CIP Connections             | Max 15                  |
| Communication Rate          | 10/100Mbps              |
| Duplex Mode                 | Full/Half               |
| Auto-MDIX Support           | Yes                     |
| Embedded Switch             | Yes, 2 x Ethernet ports |
| Device Level Ring (DLR)     | Supported               |
| Network Time Protocol (NTP) | Supported               |

## Analog Sampling (ADC)

| Specification | Description                                                         |
|---------------|---------------------------------------------------------------------|
| Sample Rate   | 60 Msps (CAN-L and CAN-H)<br>30 Msps (Power and Shield)             |
| Resolution    | 3.9 mV (CAN-L and CAN-H)<br>15 mV (Power and Shield)                |
| Range         | -8.0 to +8.0 V (CAN-L and CAN-H)<br>-30 to +30 V (Power and Shield) |

## DeviceNet®

| Specification        | Description                   |
|----------------------|-------------------------------|
| Connector            | 5-way terminal, 5.08mm pitch. |
| Modes                | Listen Only                   |
| Supported Baud Rates | 125k, 250k, 500k              |

## EtherNet/IP™ Target

| Specification                   | Description |
|---------------------------------|-------------|
| Class 1 Cyclic Connection Count | 4           |

## Agency Approvals & Certifications

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



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## More Information

For more information, please contact ProSoft Technology or your local distributor.

## A-DNM

DeviceNet® Monitor

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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