DF1 Router
Intelligent DF1 to EtherNet/IP Router

Route DF1 to Logix
1761-NET-ENI Replacement
Program Legacy, Micro800 and Logix Controllers over Serial from EtherNet/IP
Interface PanelView Plus or PV800 to legacy controllers
Radio Modem Protocol
Logix to SLC / PLC5
Legacy DCS Integration
Supports Redundancy
Direct-to-Tag Technology
Built-In Packet Analyser
DIN Rail Mount
Easy to configure

The DF1 Router provides intelligent data routing between EtherNet/IP and DF1 networks which can help simplify the migration from PLC2, PLC3, PLC5, and SLC systems to ControlLogix and CompactLogix platforms.

It can also be used in the systems requiring interfaces to legacy DCS systems, including the Honeywell TDC series.

The device makes use of the DF1 destination Node Address, (and Data File address in certain modes), to determine to which Logix controller the message should be routed to. The mapping table, which can be configured in minutes, supports connections up to 8 Logix controllers.

The DF1 Router can also be used to program various Rockwell Automation controllers (ControlLogix, CompactLogix, MicroLogix, SLC, PLC5, and Micro800) from Ethernet to Serial.

The DF1 Router can also be used to connect newer PanelView Plus and PanelView 800 devices to a range of Rockwell Automation controllers. This is especially useful with newer PanelView Plus devices (supporting only Ethernet) which needs to connect to controllers (new and old) via serial.
Transparent Mode
Transparent mode will redirect DF1 PCCC messages to a Logix controller at a pre-configured EtherNet/IP path. The destination Logix controller will require PLC mapping to be configured.

Reactive Mode
In Reactive mode the DF1 Router will convert DF1 PCCC messages to Logix controller tag reads or tag writes. No Logix PLC Mapping configuration is required.

Scheduled Mode
The Scheduled mode transfers data between a DF1 device and a number of Logix tags, in pre-configured scheduled manner. No Logix or remote device configuration is required.

Unscheduled Mode
In this mode the DF1 Router provides a pass through function for Logix message instructions.

Legacy DCS Migration Example
Systems requiring interfaces to Honeywell TDC (Serial Interface and PLC-Gateways) can migrate to Logix using the DF1 Router.

Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Rating</th>
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</thead>
<tbody>
<tr>
<td>Power requirements</td>
<td>10 - 28 VDC (70mA @ 24VDC)</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-20 - 70 °C</td>
</tr>
<tr>
<td>RS232 (DF1) Isolation</td>
<td>2500 V</td>
</tr>
<tr>
<td>BAUD Supported</td>
<td>1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200</td>
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<tr>
<td>DF1 Protocol</td>
<td>Full/Half duplex, Radio modem, CRC/BCC, Embedded response.</td>
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<tr>
<td>Ethernet</td>
<td>10/100 Mbps, Full/Half Duplex, Auto-MIDX</td>
</tr>
<tr>
<td>Logix controller max</td>
<td>8</td>
</tr>
<tr>
<td>Mapping item max</td>
<td>20</td>
</tr>
</tbody>
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