aparian

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, CompactLogx, MircoLogix, 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

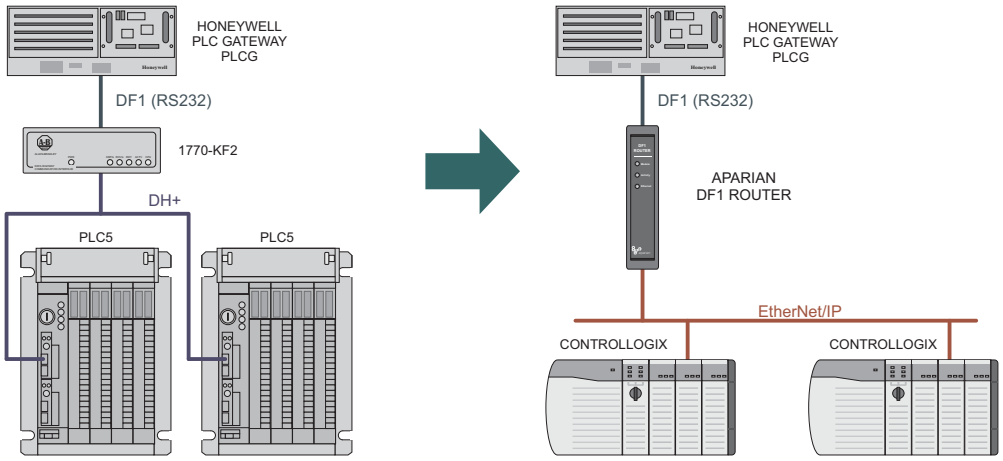
The Scheduled mode transfers data between a DF1 device and a number of Logix tags, in pre-configured scheduled manner.
No Logix or remote device configuration is required.

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-Gatways) can migrate to Logix using the DF1 Router.



EtherNet/IP

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CL 1 DIV 2 GRP A,B,C,D
E494895

Specifications

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

DF1 Router
A-DF1R

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