



# DATASHEET

## DF1 Routing Module PLX51-DF1-ENI

Wondering what you'll do now that Rockwell Automation has discontinued its legacy 1761-NET-ENI module? ProSoft Technology's DF1 Routing Module can be used in a similar way.

The PLX51-DF1-ENI module provides EtherNet/IP connectivity for SLC™ 500, CompactLogix™ and MicroLogix™ controllers, as well as many other DF1™-enabled devices

The module can be used for messaging between two controllers, uploading and downloading PLC programs, modernizing HMI's, or migrating legacy Honeywell systems.



### Features

- ◆ Intelligent routing to ControlLogix or CompactLogix from PLC-5, SLC, MicroLogix controllers SCADA, DCS gateways and more
- ◆ Direct-to-tag technology simplifies data mapping, reducing configuration time
- ◆ Secure module configuration via on module switch
- ◆ Can be used in a redundant ControlLogix system
- ◆ Built-in packet analyzer for DF1 networks to assist in trouble shooting serial network issues

## DF1 to EtherNet/IP



Upload and download to EtherNet/IP PLCs from DF1 PCs.

- Replace legacy KF2 modules

## EtherNet/IP to DF1



Upload and download to DF1 controllers from EtherNet/IP PLCs

- Replace legacy 1761-NET-ENI

## DF1 PanelView Modernization



Replace legacy PanelView terminals on DF1 with EtherNet/IP terminals

- Support for PanelView Plus 6 and above

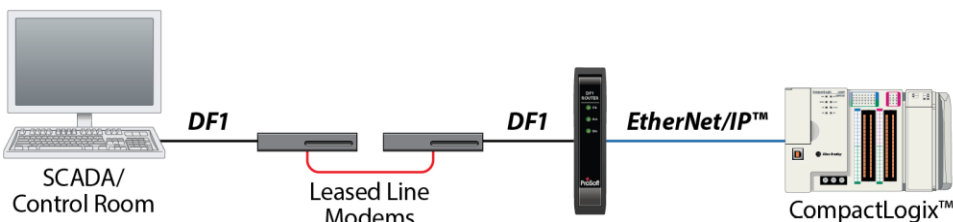
## Honeywell DCS Migration



Connect Logix-based PLCs to Honeywell DCS systems

- Support for Honeywell TDC 3000+

## DF1 Radio Modem



Connect Logix-based PLCs to PCs over DF1 radio modem

- Supports store and forward



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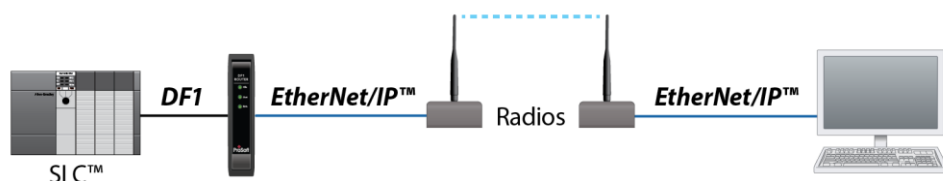
Whether your application is large or small, our technical professionals are there to help you choose the right communication solution.

## Messaging Between Controllers



Message between EtherNet/IP and DF1 controllers

## Wireless



Facilitates communication between DF1 and EtherNet/IP controllers in large, wide-ranging applications.

## Specifications

EtherNet/IP	Description
Connector	RJ45
Conductors	CAT5 STP/UTP
ARP Connections	Max 20
TCP Connections	Max 20
CIP Connections	Max 10
Communication Rate	10/100 Mbps
Duplex Mode	Full / Half / Auto-Negotiate
Auto MDIX	Yes

DF1	Description
Protocol	DF1 Full Duplex, DF1 Half Duplex, DF1 Radio Modem
Baud Rate	1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200
Parity	None, Even, Odd
Data Bits	8
Stop Bits	1
Error Detection	CRC, BCC
Embedded Response	Auto, On
Bridge Mode Mapping	Max 20 routes
Slave Mode Mapping	Max 20 routes
Slave Mode Message Support	PLC-5 Typed Read, PLC-5 Typed Write, SLC Typed Read, SLC Typed Write, PLC-2 Unprotected Read, PLC-2 Unprotected Write, PLC-2 Unprotected Bit Write
Scheduled Tag Mode Message Support (Master)	PLC-5 Typed Read, PLC-5 Typed Write, SLC Typed Read, SLC Typed Write



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## Hardware Specifications

Specification	Description
Enclosure	Plastic
Enclosure Rating	IP20, NEMA/UL Open Type
Dimensions (H x W x D)	101.0 x 22.5 x 120.0 mm
Power Requirements	Input: 10 to 28 VDC, (70 mA @ 24 VDC / 130 mA @ 10 VDC)
Power Consumption	1.7 W
Power Connector	3-way terminal
Conductors	24 to 18 AWG
Temperature	-20°C to 70°C
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

## Regulatory Approvals

Agency
ATEX: Zone 2 Cat 3
UL/cUL Class 1 Div 2
Regulatory
CB Safety
CE



## Additional Products

ProSoft Technology® offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms. For a complete list of products, visit our website at: [www.prosoft-technology.com](http://www.prosoft-technology.com)

## Ordering Information

To order this product, please use the following:

## DF1 Routing Module

PLX51-DF1-ENI

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