

# Allen-Bradley Rockwell – PLC5/SLC Devices

## Summary Information

**Communication Driver Name:** DF1\_Ethernet

**Implementation DLL:** T.ProtocolDriver. DF1\_Ethernet.dll

**Protocol:** DF1

**Interface:** TCPIP

**PLC types supported:** Devices using DF1 Protocol (SLC Families and PLC5)

**Manufacturer:** Rockwell

**PC Hardware requirements:** Ethernet board

## Channel Configuration

### Protocol Options

None

## Node Configuration

### Station Configuration

Station syntax: <IP>;<Port>

Where:

- <IP> = The IP address of the slave device in the AB network
- <Port> = The TCP port where the slave device is listening (default is 2222)

E.g.: 192.168.1.101 ; 2222

## Point Configuration

### Address

The syntax for the AB Ethernet communication points is: <FileType><FileNumber>:<ElementNumber>

- **FileType:** The valid values are:

File	Read	Write	Bit Read	Bit Write	Data Type	Address Size
N Integer	Yes	Yes	Yes	Yes	Word	2 bytes
B Binary	Yes	Yes	Yes	Yes	Word	2 bytes
F FloatPoint	Yes	Yes	Yes	Yes	Single	4 bytes
O OutputLogical	Yes	Yes	Yes	Yes	Word	2 bytes
I InputLogical	Yes		Yes		Word	2 bytes

- **ElementNumber:** The element address in the configured file
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## Troubleshoot

The status of the driver's execution can be observed through the diagnostic tools, which are:

- Trace window
- Property Watch
- Module Information

The above tools indicate if the operations have succeeded or have failed. A status of 0 (zero) means communication is successful. Negative values indicate internal driver errors, and positive values indicate protocol errors according to AB specification.