

# Parker IQAN Generic CAN Driver

## Information Sheet for Crimson v3.0+

---

### Compatible Devices

Parker IQAN

### Verified Device

Parker IQAN MC2

### Overview

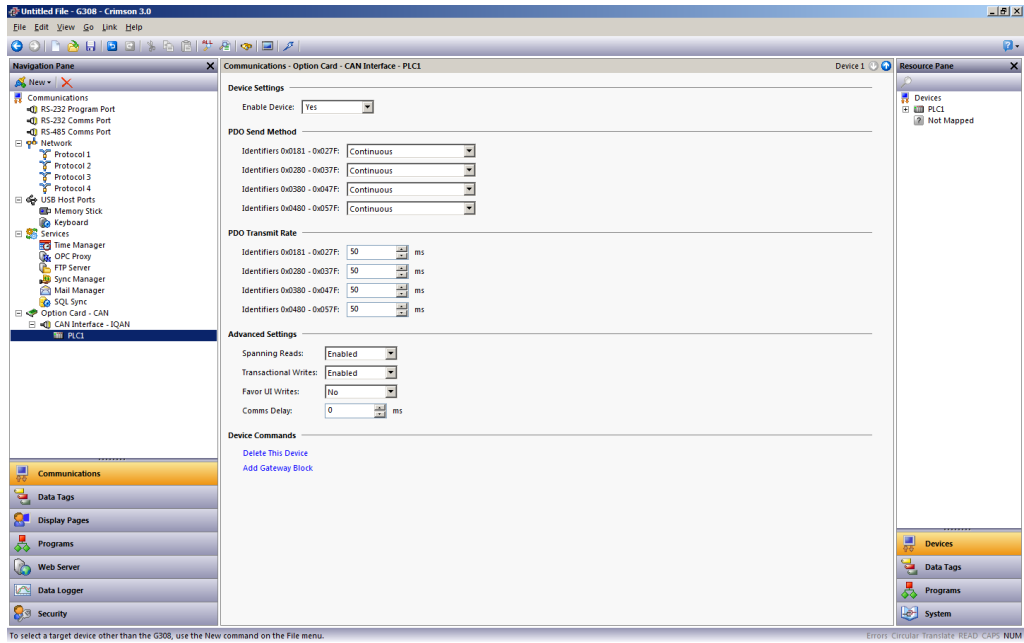
The Parker IQAN Generic CAN Driver is designed with a UI that is easily configurable based on an IQANdesign 2 configuration using CANOpen PDO data transfer on a generic bus.

### Device Configuration

Within the Communications navigation pane, click on Option Card then use the "Pick..." button to select the CAN Option Card. Now click on the newly created CAN Interface and use the "Pick..." button to select the Parker IQAN driver.

At this time the driver and port settings should be reviewed and changed if necessary. Select NMT Service Support (Identifier 0x00) only if this support is configured in the IQAN master device.

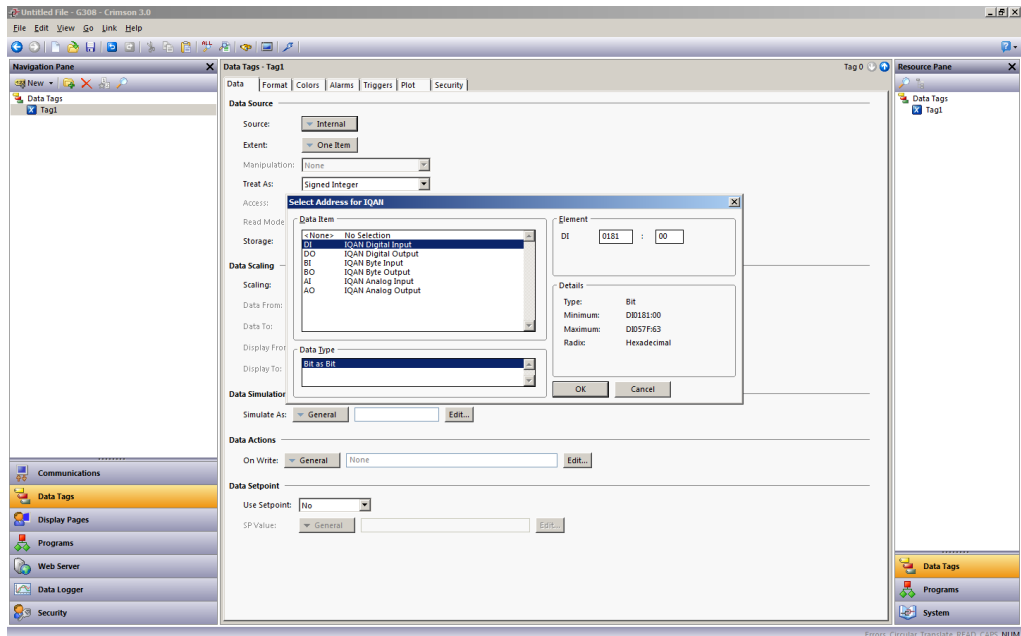
Click on the Device under CAN Interface – IQAN in the communications tree to configure the device settings. Here identifiers are divided into 4 groups so that different behaviours may be configured as needed.



2 methods are available for PDO's that are sent to the IQAN, Continuous and On Change. When Continuous is selected the rate at which the PDO's are sent to the IQAN is also configurable in milliseconds. Note that any CANOpen SYNC messages (Identifier 0x80) received will be honoured. When On Change is selected, PDO's will only be sent to the IQAN master once per each value change.

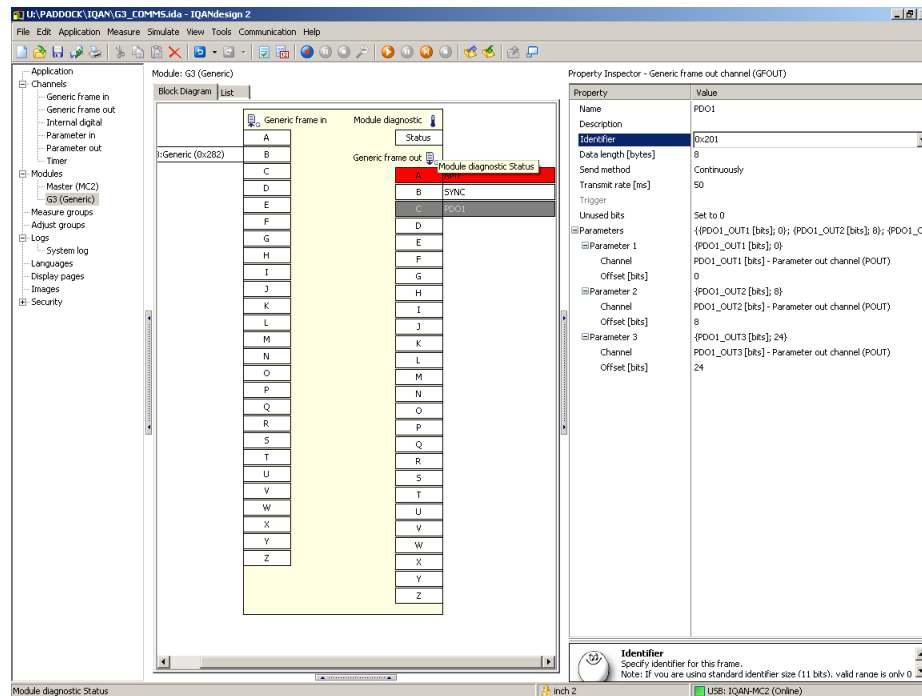
## Accessing Data

Create a tag in the Data Tags navigation pane and select the IQAN device as the source. The address selection box as shown in the following screen shot will appear.



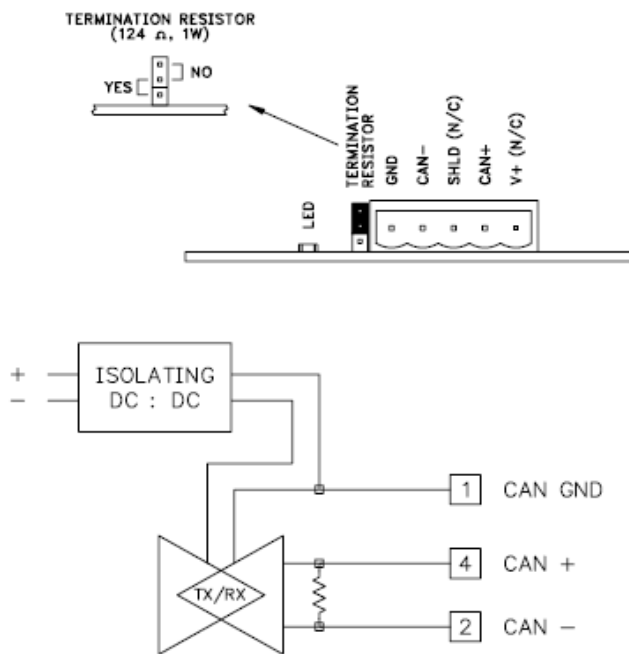
Data is labelled (in/out) from the IQAN's perspective, therefore output data access from the Red Lion device is read only while the input is write only. DI/DO is provided for bit access, BI/BO for byte access and AI/AO for 2 byte and 4 byte access.

The identifiers are entered in the element group as hhhh:dd, where hhhh is the identifier in hexadecimal and dd is the bit offset within the PDO in decimal. This is consistent with the identifier and bit offset (Offset[bits]) definitions in IQANdesign 2 as seen below.



Each identifier represents one PDO and must be used exclusively for transmitted data or exclusively for received data. Only 64 transmit PDO's and 64 receive PDO's of 8 data bytes are supported.

## Cable Information



## Revision History

03/14/11 - Created