

CANopen A-CANOR

The CANopen[®] Router provides intelligent data routing between either EtherNet/IP[™] or Modbus TCP/IP[®] and the CANopen bus network. This allows the user to integrate CANopen devices into a Rockwell[®] Logix platform (e.g. ControlLogix[®] or CompactLogix[™]) or any Modbus Master device with minimal effort.

The module can be configured to be either a Master or Slave allowing the user to not only integrate CANopen devices into a Logix or Modbus system, but to also allow the user to use Logix or Modbus devices in an existing CANopen network (by using the CANopen Router in Slave mode). In a Logix system the module uses Direct-To-Tag technology allowing CANopen devices to exchange data with a Logix controller without the need to write any ladder or application code in Studio 5000.

The module also provides a range of statistics to simplify the diagnostic process as well as a CANopen packet capture for remote diagnosis. A built-in webserver provides detailed diagnostics of system configuration and operation, including the display of CANopen operation and communication statistics, without the need for any additional software.



Features

- ❖ Support for CANopen Master or Slave
- ❖ Support for EtherNet/IP or Modbus TCP/IP
- ❖ Supports up to 64 CANopen Slaves (when in Master mode)
- ❖ Support for up to 16 PDOs (receive and transmit) per CANopen Slave
- ❖ Direct-To-Tag technology for Logix controllers
- ❖ Advanced diagnostics including packet capture

Configuration

- ❖ The Slate Configuration Utility software is used for configuration and troubleshooting of the module. The stand-alone configuration utility allows users to define the setup and configuration of the CANopen Router module, connections with controllers and devices.
- ❖ The configuration utility can be downloaded from www.prosoft-technology.com

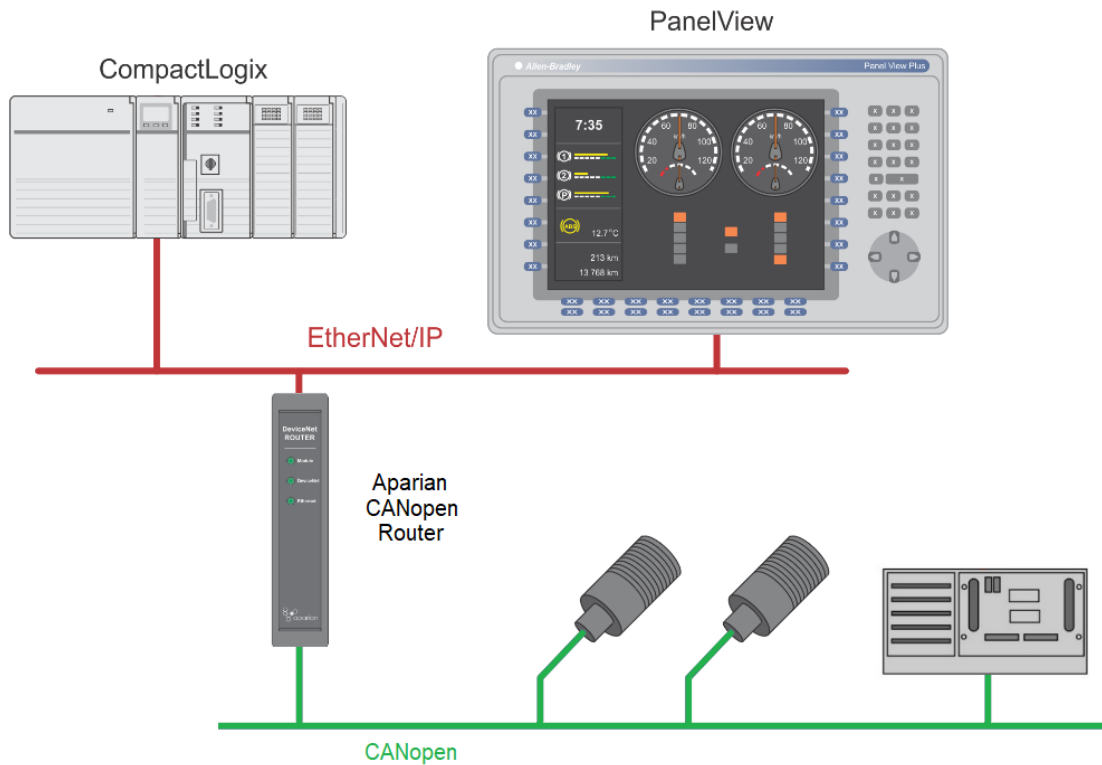


Figure 1 - Typical architecture using the CANopen Router

The figure above provides an example of the typical network setup for connecting various CANopen Slaves to a Logix controller via the CANopen Router.

The same applies for interfacing CANopen Slaves to a Controller using Modbus TCP/IP (as shown below).

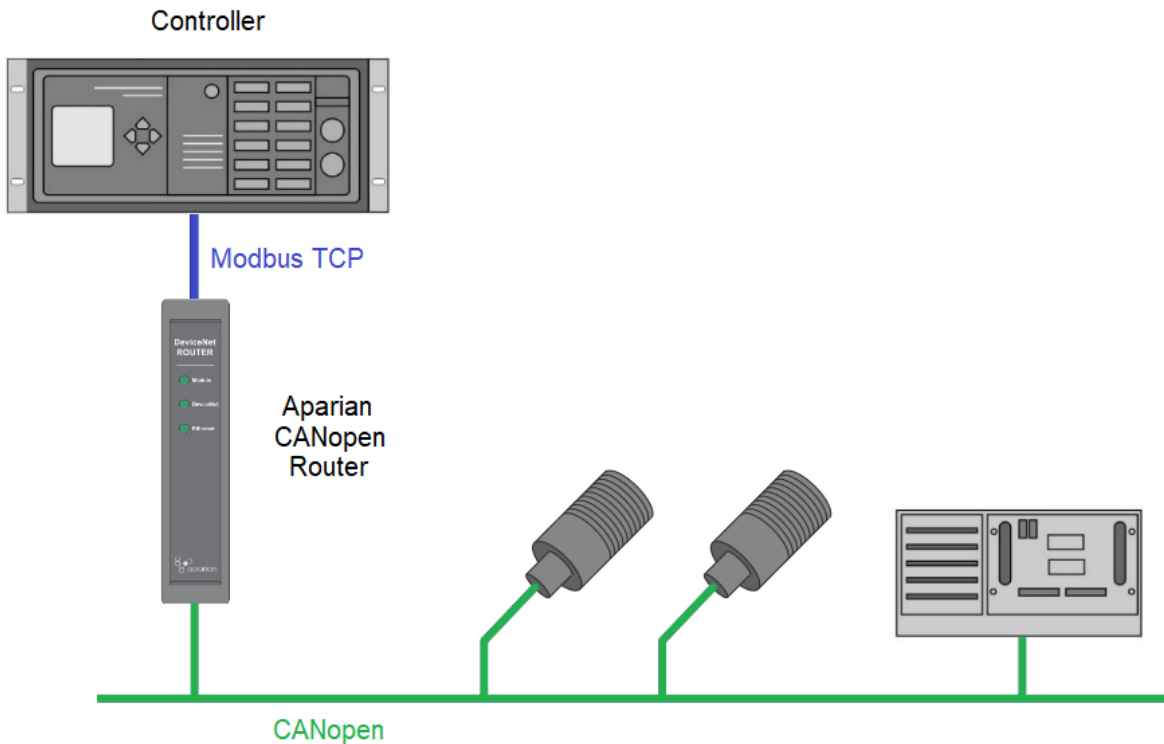


Figure 2 - Typical network setup for connecting CANopen Slaves to a Modbus Master

The following examples illustrate how the CANopen Router can be used as a CANopen Slave to allow Modbus devices and Logix controllers to integrate into an existing CANopen network.

Below is a typical network when the user is planning to use a Modbus device on an existing CANopen network using the CANopen Router.

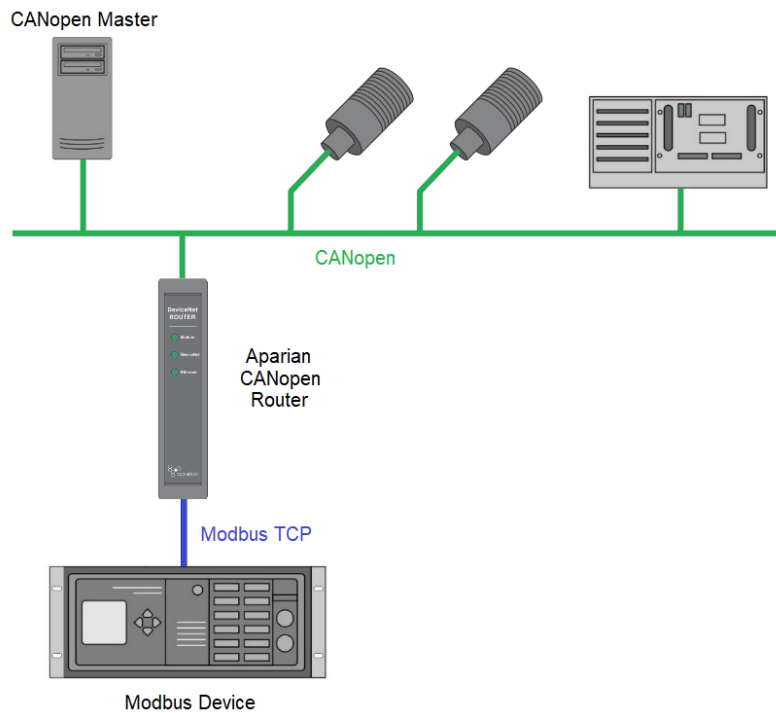


Figure 3 – Modbus Device acting as a CANopen Slave via the CANopen Router

Below is a typical network when the user is planning to use a Logix controller on an existing CANopen network using the CANopen Router.

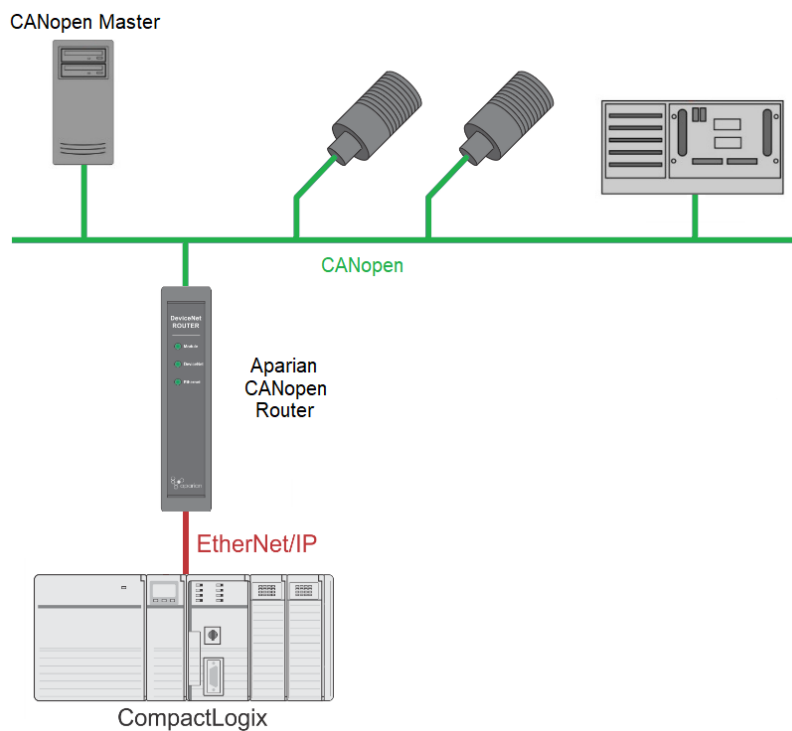


Figure 4 – Logix Controller acting as a CANopen Slave via the CANopen Router

Specifications

EtherNet/IP Network

Specification	Rating
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-MDIX Support	Yes

CANOpen Network

Specification	Rating
Connector	5-way terminal, 5.08 mm pitch.
Modes	Master, Slave
CANopen Slave Count	64
PDO Count per Device	16
Supported Baud Rates	50k, 125k, 250k, 500k, 800k, 1M
CiA 443 Support	Yes
NMT Messages	Operational Control (eg. Stopped, Pre-operational, Operational), SYNC, TIME, EMCY

***Note:** Although the CANopen Router supports the CiA443 objects, the CANopen interface is not fault-tolerant.

Hardware

Specification	Rating
Power Supply	Input: 10 to 28 VDC, (70 mA @ 24VDC)
Power Consumption	1.7 W
Dimensions (H x W x D)	101.0 x 22.5 x 120.0 mm
Connector	5-way terminal, 5.08 mm pitch.
Conductors	24 to 18 AWG
Enclosure Rating	IP20, NEMA/UL Open Type
Temperature	-20 to 70 °C
Humidity	0 to 95% RH, non-condensing
Earth Connection	Yes, terminal based
Emissions	IEC 61000-6-4
ESD Immunity	EN 61000-4-2
Radiated RF Immunity	IEC 61000-4-3
EFT/B Immunity	IEC 61000-4-4
Surge Immunity	IEC 61000-4-5
Conducted RF Immunity	IEC 61000-4-6

Agency Approvals & Certifications

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