aparian

ControlNet Router

Intelligent ControlNet to EtherNet/IP Router

EtherNet/IP to ControlNet

Ethernet-only PanelView to Logix Controllers over existing ControlNet

Supports Scheduled and Unscheduled ControlNet for PanelView

Program Logix controller via ControlNet

DIN Rail Mount

Easy to configure

The ControlNet Router provides an efficient method of bridging between ControlNet and Ethernet networks.



The module exchanges data with a Logix controller via a ControlNet bridge (eg. 1756-CNB) using Scheduled Class 1 communication or Unscheduled Class 3 / UCMM messaging.

The size of the produced and consumed data is user-configurable up to 400 bytes.

The IO data can be accessed via Ethernet using either the PCCC or EtherNet/IP protocols. The former allows the module to emulate user-defined PLC5-type data files simplifying the data exchange with PanelViews .

The ControlNet Router is easily configured using the Aparian Slate environment. RSNetworx for ControlNet is used to scheduled the ControlNet Router over the ControlNet network.

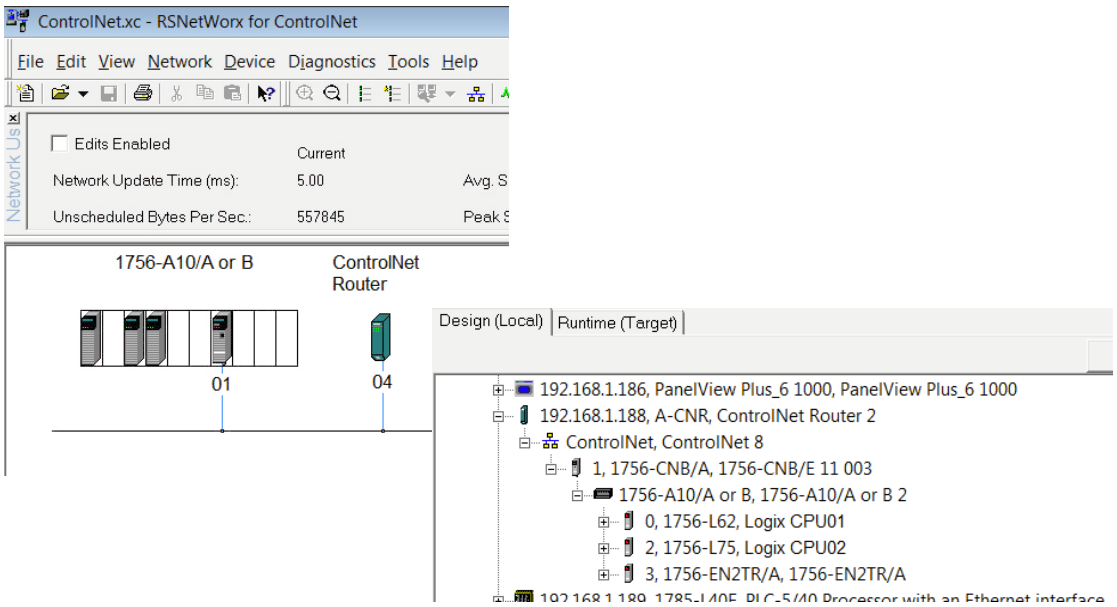
Diagnostic information on the module is available via a user-configurable data file, webserver, or via an EtherNet/IP message.

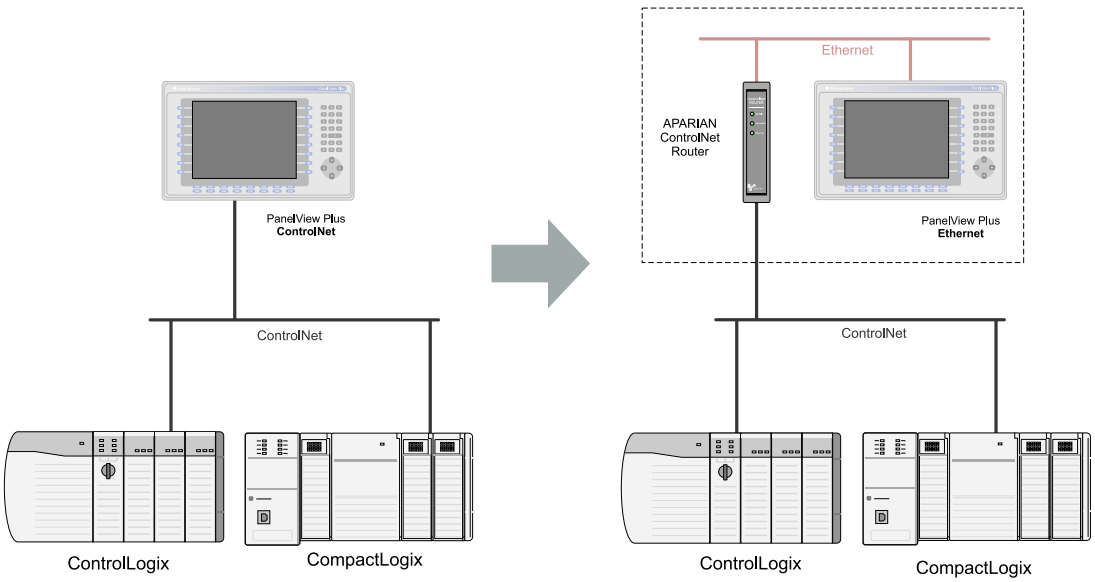


Example

In the following example a ControlNet PanelView is replaced with an Ethernet only PanelView.

The ControlNet Router is configured at Node 4 and can be used to connect the PanelView to a Logix controller using unscheduled ControlNet or scheduled ControlNet.





Specifications

Parameter	Rating
Power requirements	10 - 28 VDC (70mA @ 24VDC)
Operating temperature	-20 - 70 °C
PanelView to Logix Interface	Scheduled/Unscheduled ControlNet
ControlNet Input/Output Size	400 bytes
Logix ControlNet Programming	Supported
Ethernet	10/100 Mbps, Full/Half Duplex, Auto-MIDX

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