Ransburg RCS-2 Interface EPI - Converting System From RIO to Ethernet I/P

Model: A14084-01

OVERVIEW

This service instruction describes the differences of an RCS-2 with Ethernet I/P capability and one with RIO communications capability. The reader will need to reference other documents for the specific implementation details of each protocol.

OPERATIONAL CAPABILITIES

The RCS-2 Interface-EIP card is designed to provide operational capabilities similar to the previous combination of the RCS-2 Interface card with the RCS-2 RIO communications card. The new card will work with the FMS operator display and channel cards just the same as the previous Interface card did. The new Interface-EIP card will enable remote access to status and control signals via an Ethernet I/P network with services similar to those available with the RIO card on a RIO communications network.

REQUIRED HARDWARE

The Interface-EIP card (A14083) can be used with existing RCS-2 systems with minimal physical changes to the RCS-2 system. The required changes include:

- Remove RIO card (77377-22).
- Remove Interface card (78818-00).
- Place cover plate on slot 1 (previous location of RIO card).
- Insert Interface-EIP card into slot 2 (previous location of Interface card).
- Connect Interface-EIP card's top Ethernet connection to network with FMS display and the PLC.

> **NOTE**
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> ➤ See separate documents for steps to reconfigure FMS display address and how to configure the IP address where FMS will look for the Interface-EIP card.

> **NOTE**
>
> ➤ The bottom Ethernet connection is only used when updating the software on the board.

REQUIRED SOFTWARE VERSIONS

For the Interface-EIP card to function properly, there are required minimum software versions for some of the components in the RCS-2 system. The minimum version required include:

- Channel card (78814-00) - V4.06 or greater.
- FMS user interface (A1075-02) - V5.05 or greater.

If the software of those components are not at the minimum level, they will need to be updated or replaced with components that have the minimum software levels.
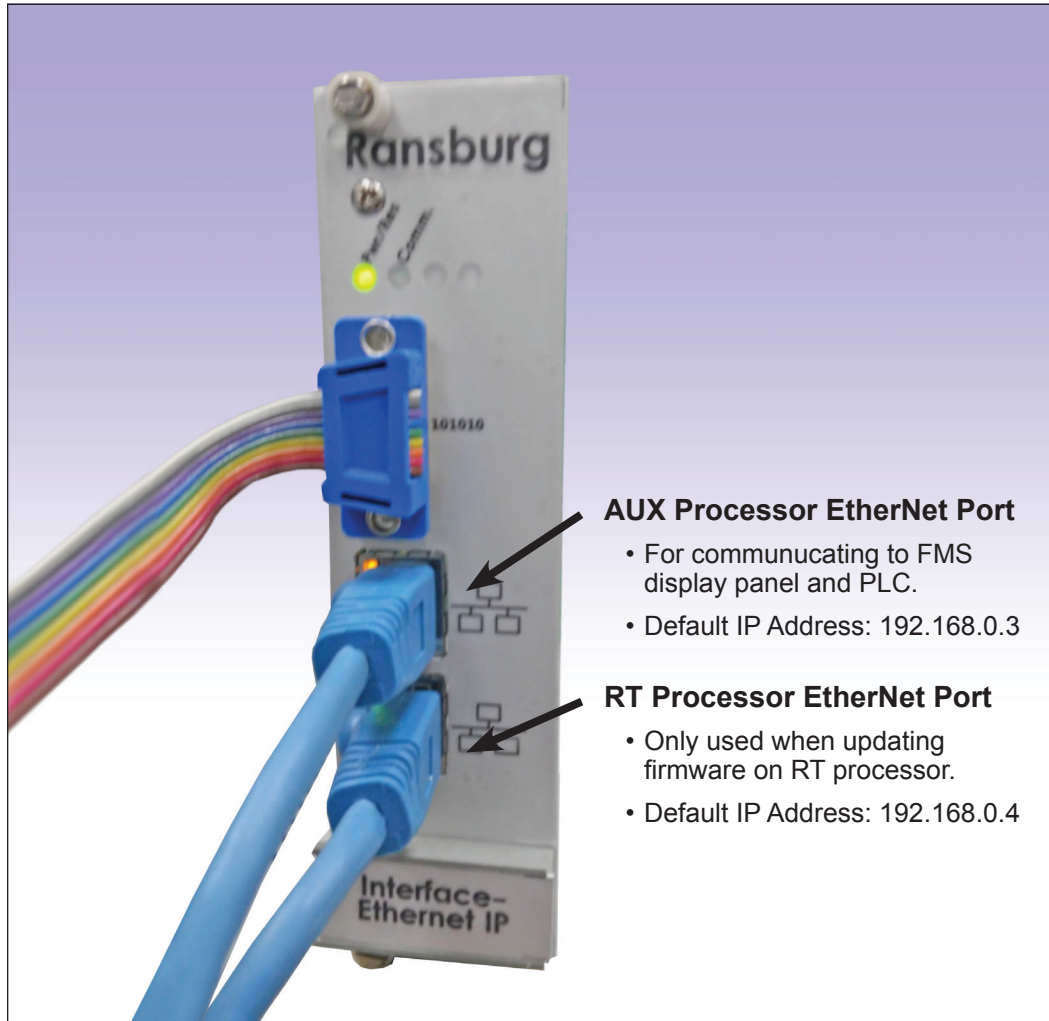
EXTERNAL COMPONENTS - PHYSICAL CONNECTIONS

The RCS-2 Interface-EIP card requires a connection to an Ethernet network connected to the PLC or robot which does the status reading and/or control signaling of the RCS-2. Any previous RIO connection is not required and can be disconnected.

EXTERNAL COMPONENTS - COMMUNICATIONS PROTOCOL PROGRAMING

While the communications capabilities of the Interface-EIP card are similar to the previous RIO implementation, the specific implementation details of the protocols is not the same. Reprogramming of the PLC or robot will be required. Refer to protocol specification documents for specific details and programming examples.

RCS2 INTERFACE EIP - ETHERNET PORTS

AUX Processor EtherNet Port

- For communucating to FMS display panel and PLC.
- Default IP Address: 192.168.0.3

RT Processor EtherNet Port

- Only used when updating firmware on RT processor.
- Default IP Address: 192.168.0.4

NOTE

➤ The RCS2 Interface EIP board has two Ethernet RJ45 connector ports on the front panel.

➤ The top connector is used for connecting to the RCS2 front display panel and PLC controller.

➤ The second connector is only used as part of updating firmware on the board (see separate document for process).

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