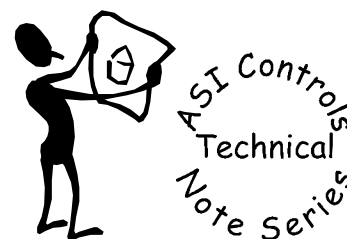


Applying New System Interface Devices

Affects: SINC/3-3000 and ASI-C/R

Date: August 30, 1999



Note No. TE017

We have introduced two new System Interface devices, the ASI Converter/Repeater (ASI-C/R) and SINC/3-3000 Multiport System Interface that replace the functionality of the SINC/2-2000 and add new features. This note describes the proper methods of applying each device into your ASI Controls network.

DO's of the ASI Converter/Repeater

The ASI-C/R is a simple device that performs 2 major functions:

1. Converts the computer's serial RS-232 standard to the ASI Controls' RS-485 network standard.
2. Repeats and amplifies the ASI Controls' RS-485 network standard to allow for an additional 32 devices to be connected on the same communication bus.

The ASI C/R requires no setup. The ASI-C/R simply reads the incoming data and sends it out. As a converter, data entering the RS-232 side at 19200 baud and 2 stop bits will leave as RS-485 19200 baud and 2 stop bits. As a repeater, data entering the RS-485 Repeater side is reproduced on the RS-485 Field side at the same baud rate.

DONT's of the ASI Converter/Repeater

The ASI-C/R is a simple device which does not perform high level functions such as: Time Keeping and Data Buffering.

1. The ASI-C/R does not have a clock on board. Therefore it cannot be a time keeper. Use an ASIC/2 or SINC/3-3000 for time related needs.
2. The ASI-C/R does not allow for data buffering. Data comes in and goes out at the same baud rate and stop-bit configuration. For example, you cannot connect a 9600 modem to a 19200 network. The baud rates are different and the ASI-C/R cannot restore the stripped stop bit that occurs with modem connections.

The DO's of the SINC/3-3000

Our SINC/3-3000 is being released in phases. On its final release it will act much like an ASIC/2 without I/O. When configuring your system, all the same communication rules that apply to an ASIC/2 apply to the SINC/3-3000.

The SINC/3-3000 in its **first** release can:

1. Convert the computer's serial RS-232 standard to the ASI Controls' RS-485 network standard.

2. Be a master time keeper using its on board battery backed real time clock.
3. Buffer messages allowing for baud rate buffering and modem access.
4. Allow for simultaneous computer (direct) and modem connection to the network. The SINC/3-3000 has 2 DB-9 connectors for both Modem DTE and Direct DCE connection.
5. Only the system bus is active

The SINC/3-3000 in its **second** release can:

1. Dial out alarms.
2. Poll and broadcast on either of two local busses.
3. Pass-thru messages from the RS-232 Modem or Direct ports to the system or local busses.
4. Participate in remote point sharing.
5. Perform other functions such as calculation, logic, and calendar, to name a few.

The SINC/3-3000 in its **third** release can:

1. Perform Notification of events on the ASI Network.
2. Dial-out on any new Notification.

The DONT's of the SINC/3-3000

The SINC/3-3000 buffers all messages between busses. Therefore it cannot be used as a simple RS-485 repeater.

Below are two drawings of typical system installations with the two different devices.

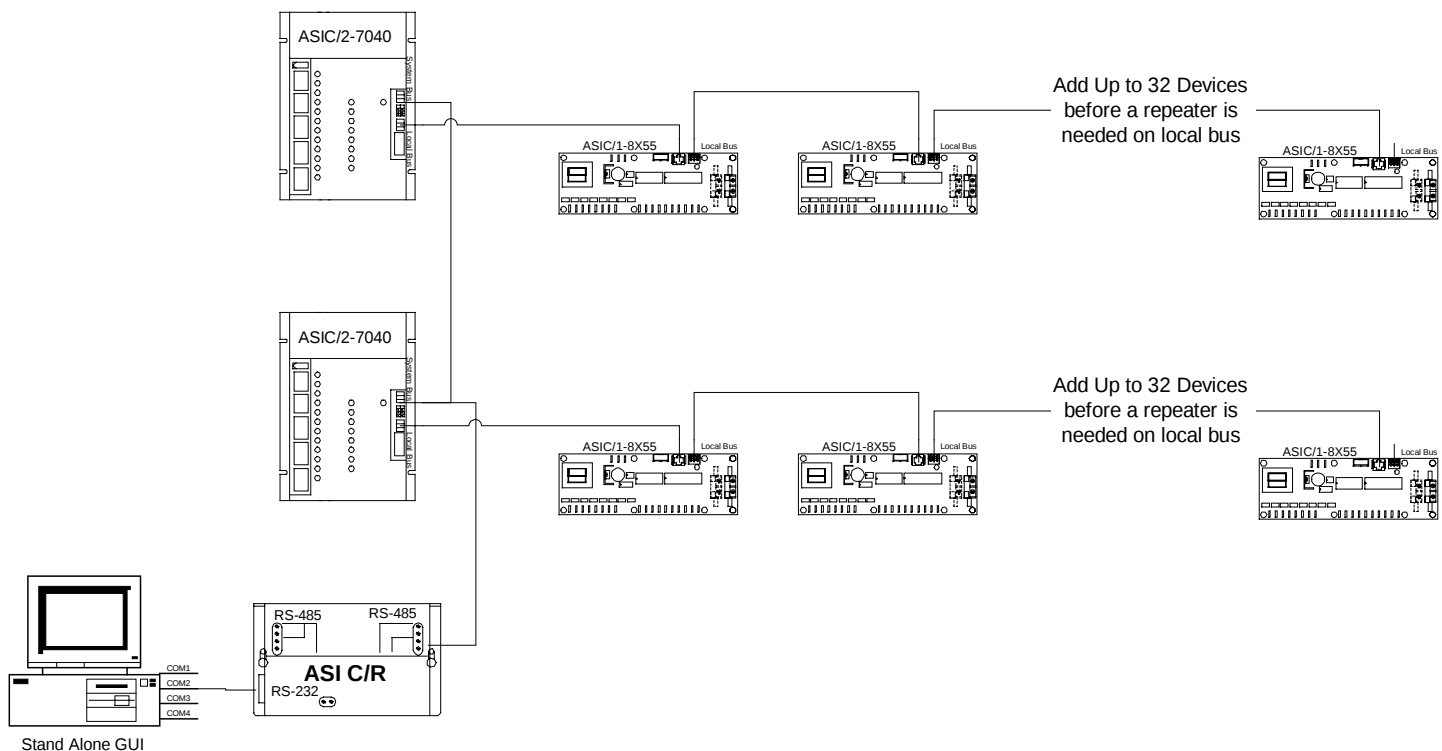


Fig. 1 - Uses ASI-C/R to convert RS-232 to RS-485. Time is taken care of by ASIC/2-7040s

