Application Bulletin

OCS

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Connecting the LX Series OCS to an Ethernet Network

Overview

Several options exist for connecting the LX 280 Monochrome or LX300 Color Touchscreen OCS to an Ethernet Network. The LX Series OCS has both a serial port and a CsCAN port that may be used to pass data to and from an interface device. Possible solutions are

- Adding a HE800ETN200 Ethernet SmartStack module to a HE500RCS116 CsCAN Network Base or HE500RCS250 Coprocessor connected over the CsCAN network to the LX.
- Using a serial-to-Ethernet gateway, such as the ABLELink Serial Server, connected to the LX serial port.
- Using the Ethernet network port of an OCS sharing the CsCAN network with the LX.

Figure 1 – Connect a serial-to-Ethernet gateway, such as ABLELink's GW21R Dual Port Industrial Serial Server or GW21E Single Port Serial Server, to the LX serial port.

Setting up the Hardware

The selection of which approach to use will normally be dictated by other system considerations such as port availability and economics. Unless both serial ports of the HELX280C100 or HELX300C100 OCS are dedicated to another function, it is available for the serial-to-Ethernet gateway. Also, if an RCS116 or RCS250 is already connected to the CsCAN network, it is easy to just snap on an ETN200 Ethernet SmartStack module. There may also be other CsCAN network or serial gateways available to perform this connection.

Operating considerations

The absence of a built in Ethernet port on the LX Series OCS is not a limiting factor in connecting the unit to your network.

Horner APG wrote this document on July 17, 2004. Questions or comments can be sent to the Technical Support Department by email techsppt@heapg.com.

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