

Dual-Display Application

Eason Products Used:

Eason Model 1000-M02
Eason Model 1100-M02-S03
Etilink

Complimentary Products:

Compumotor 6200

Application Background:

The Customer has a large machine on which they want to use the Eason 1100-M02-S03 to communicate serially with 2 devices. Their application also requires that they have The OI mirrored in a second location so that operators can modify the variables in the program at different locations.

Machine Objectives:

- Communicate with 2 ASCII Serial Devices.
- Have both displays work as a single OIT
- Pass control between the two devices.

Eason Solution:

The Customer contacted Eason Technology for help on this application. They needed to know the easiest way to mirror their OIT in a second location. Eason recommended the use of etilink as a method for passing control parameters between the two OIT's. Both units run essentially the same program with slight modifications. The 1100 is designated the slave in the etilink network. All variables are stored in the nvol of the 1100. The 1000 calls over etilink to check for a change in the status of the other unit every half second based on a timer interrupt. The 1100 also has a timer interrupt on every half second to see if the 1000 has made any modifications to any variables. Eason Tech. Support sent out the attached demo to the customer giving an example for how to move between screens with the timer interrupt and etilink. Control is passed back and forth between Eason's by toggling a nvol register between 1 and 0 based on a hot key interrupt. The Customer was then able to incorporate this design scheme into their project.

