Mazak Ethernet Identification Guide

This document will help you identify Ethernet-ready Mazak controls and any missing components you may need to acquire for use with FactoryWiz Monitoring.

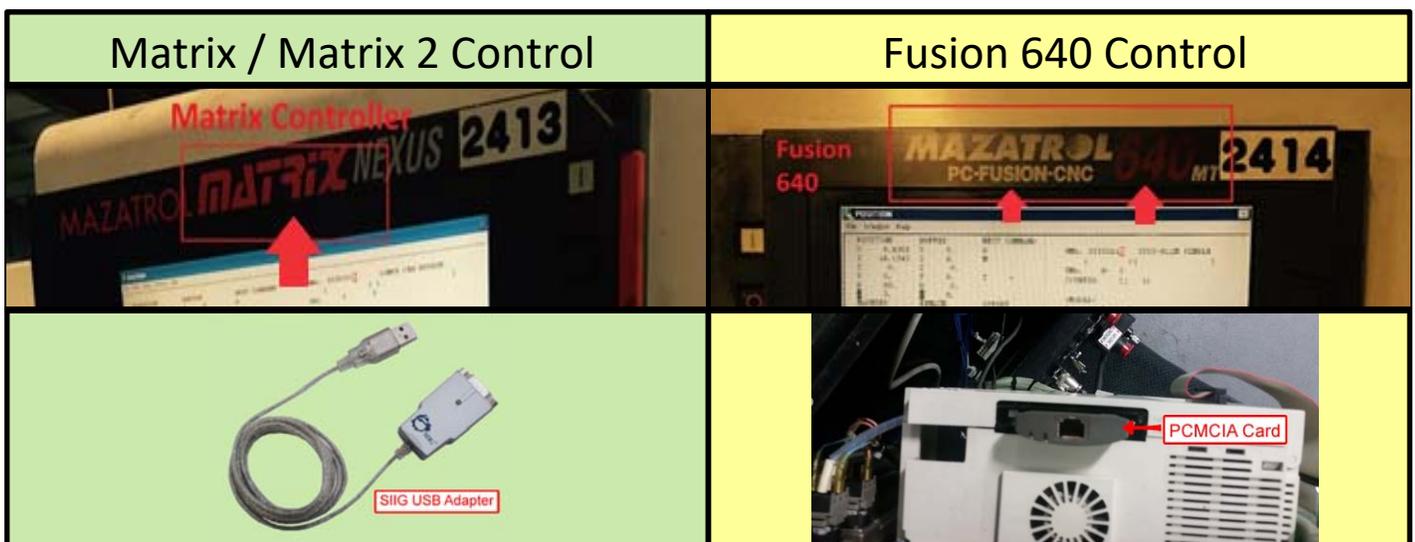## What generations of controls support Ethernet communication?

- **Matrix controls** come equipped with native Ethernet connectivity
  - For part program transfer (DNC) and additional DPRINT data via the RS232 port, a SIIG USB to RS232 DB9 is required (see photo below and refer to parts/price list)

- **Fusion Controls** are equipped with native RS232 connectivity for part program transfer (DNC) along with additional DPRINT data provided via the RS232 port but Ethernet Connectivity for Monitoring must be confirmed. See further instructions below under "If you have a Fusion 640 control…"

Notes:
- For wired connections listed above two (2) Ethernet lines are required; one for monitoring and one for RS232 file transfer (DNC)
- File transfer can be achieved using the Ethernet connection, but using the RS232 file transfer capability will simplify the operator process.
- Older MAZAK controls such as M-Plus, T-Plus, M32, T32 and older, DO NOT support Ethernet connectivity and should be treated as legacy connections.

How do I identify if I have a Fusion 640 or Matrix control?

Mazak controls are clearly labeled above the monitor screen.

Matrix / Matrix 2 Control	Fusion 640 Control

What else do I need to check?

If you have a Matrix control, <u>you are now done</u>. All Matrix controls have built in Ethernet ports. They do not need the card shown below or the card slot mentioned below.
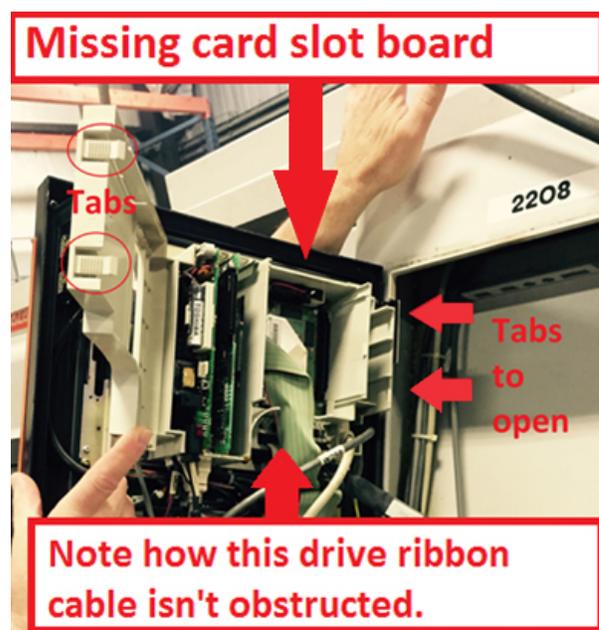
If you have a Fusion 640 control, keep reading…

If your Fusion 640 control is not already on your Ethernet network, you will need to purchase the old-style 16-Bit PCMCIA Ethernet card and possibly the slot for the card as well.
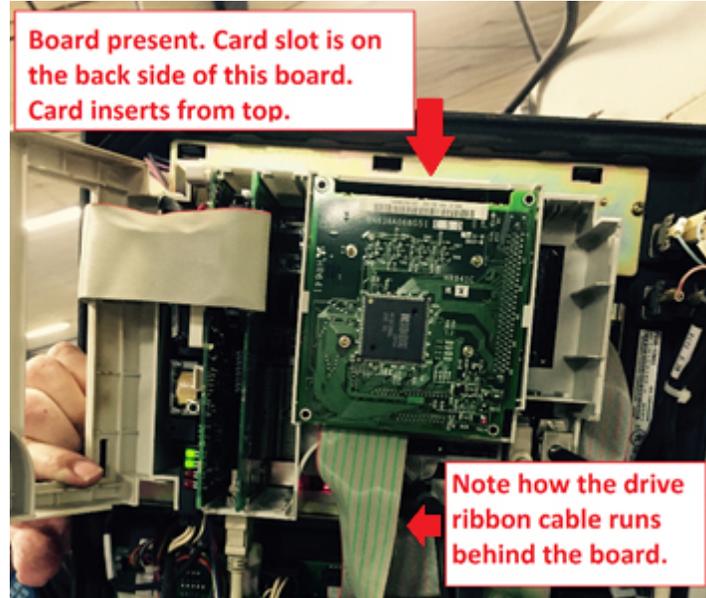
16-bit PCMCIA Ethernet adapter:

Several brands of card are available. Yours may be a different brand. Whichever one Mazak sends you is fine.
Most importantly, it is <u>critical</u> that your CNC has the slot which is needed for this card. If the slot is not present, it can be ordered from Mazak along with the network card itself prior to your FactoryWiz installation. The slot is located behind the CNC's monitor so you will need to open the front panel, open the plastic housing behind the monitor using the two tabs on the right-hand side, and check for the presence of the board which has the PCMCIA slot. Here is what it looks like when you open the cabinet and the board **is NOT** present:

Missing card slot board

Tabs

2208

Tabs to open

Note how this drive ribbon cable isn't obstructed.

Here is what it looks like when the board **IS** present:

Again - if you do not have this card slot, it is available from Mazak along with the Ethernet card itself.

If you have the slot, then you only need to order the PCMCIA Ethernet adapter from Mazak or RYM/FactoryWiz.