

CAB-800-00002- Using_Ethernet_on_MMC_Cutters-E

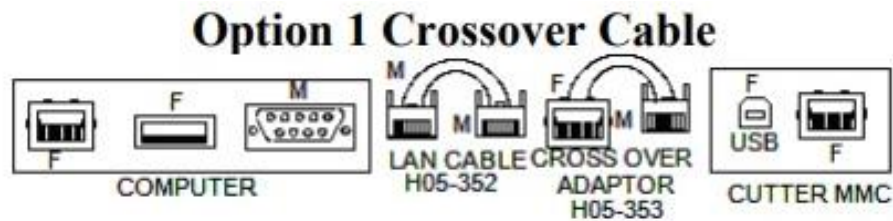
Description: This advisory bulletin describes the options for using Ethernet or Local Area Network (LAN) connection between cutter(s) and a computer.

Affected Product: All cutters.

Three options for configuration...

1. Direct connection with a crossover cable.
2. Plug cutter into the LAN.
3. Purchase a switch and cable, then breakout a single Ethernet wall jack into more than one Ethernet port.

Option 1: Direct Connect with Crossover Cable

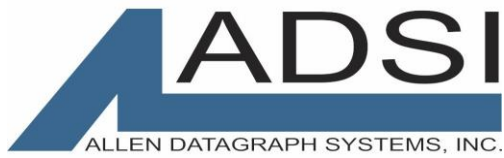


Note: Use this method if the computer is NOT connected to the internet, has a WIFI connection to the local network, has an additional network adapter card, or has a USB to ethernet adaptor plugged to one of the USB ports.

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Installation

1. Plug one end of the supplied Ethernet cable into the crossover adapter and the other end into the computer.
2. Plug the other end of the adapter into the Ethernet port on the cutter.

Note: The Ethernet cable can be up to 90meters (295ft). When using a crossover adapter, it is recommended to set a static IP address to 192.168.4.2 with a subnet mask set to 255.255.255.0.

Most new computers do not need a cross over adapter as they auto-switch the lines if you plug a transmitter into a transmitter; the cutter will default its static IP address to 192.168.4.10.

Setting a specified IP address for the PC:

Request the IT department to assign the static IP address listed above for the networked PC. If the specified IP address can not be assigned note that any IP address will work as long as the chosen IP address is unique to the network which the cutter is to be installed and can be located via ping command prompt from another networked computer. Static IP addresses are normally chosen outside the DHCP range of the DHCP server on the network. The end-user may also start command prompt (Start Menu > CMD) and ping an address on the same subnet the computer is on. If there is no answer, its a good choice.

- Setup the IP address for the Cutter: [Static IP for Cutter](#)
- Once setup, enable the Print Driver: [Print Driver Enable](#)

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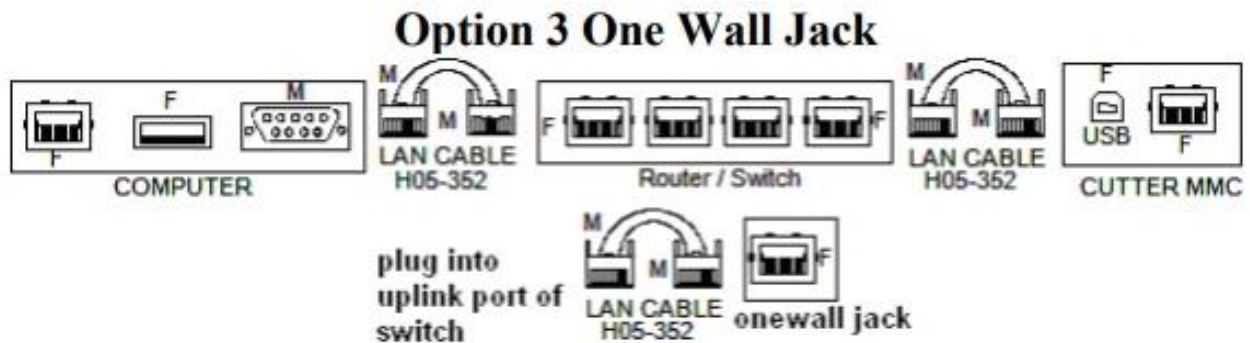
Option 2: Two Wall Jacks



This setup requires two available working network wall jack outlets. Plug the PC into one wall jack outlet and the Cutter into the other utilizing LAN cables.

- Once plugged in, run the Enable Print Driver: [Print Driver Enable](#)

Option 3: One Wall Jack



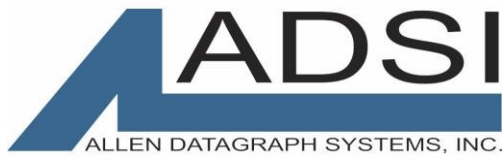
Note: An Ethernet switch (with 10/100 3 or more ports) and an additional Ethernet cable will need to be purchased for this option.

1. Plug the purchased Ethernet cable into the uplink port of the Ethernet switch, then connect the switch to the wall jack utilizing the other end of the purchased Ethernet cable.
2. Connect the PC to the switch using a supplied Ethernet cable.
3. Connect the cutter to the switch using the other supplied Ethernet cable.

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Note: This allows one wall jack to have more than one Ethernet port.

Suitable switches:

- [NETGEAR 5-Port 10/100/1000 Mbps Switch](#)
- [NETGEAR 8 Port 10/100/1000 Mbps Switch](#)
- [Linksys 5 Port Gigabit Switch](#)
- [Linksys 8 Port Gigabit Switch](#)

Note: The cutter will only require a 10 megabit per second (mbps) port, but the PC may require 10mbps, 100mbps, or 1000mbps - buy a switch that meets the needs for the computer. The Ethernet cable will need to be a CAT5e cable supporting 10/100mbps or a CAT6 cable for 1000mbps.

CAT5e cables can be purchased from Allen Datagraph: Part #: **H05-361**

Static IP for Cutter:

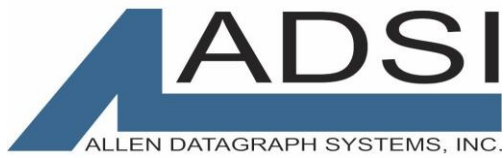
- From factory the cutters are set for Dynamic Host Configuration Protocol (DHCP) which assigns an IP address to the cutter from the DHCP server that is part of the local network.
- If there is no DHCP server on the local network, a static IP address of 192.168.4.10 is recommended for use. Normally the settings above do not require IP address configuration.
- If the router does not keep the same IP address to MAC address the cutter may get a different IP address each time it is powered ON.
- If troubles are experienced with configuring the IP address of the cutter, it is recommended to obtain a static IP address from the local network administrator and enter it into the cutter using diagnostic 4. (See user manual for your machine.)

Enabling the Print Driver is on the following page...

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Print Driver Enable:

Once connected configure the printer driver to send data to the Ethernet port and install the driver on the computer for the cutter.

1. If the Print Driver is already installed on the PC:
 - a. Click on Start > All Programs > Allen Datagraph > Cutter Driver > Enable Print Driver.
 - b. Answer, moreover, click "Yes" to the question "Do you want to do auto print driver installation?". This will install the printer driver on the correct Ethernet port.
 - c. For the remote panel, start by double-clicking the icon on the desktop. Click on Setup > Com Port > LAN.
 - d. Select the purchased cutter from the drop-down list, click on OK.
2. If the software is not installed on the computer, run the installation CD that came with the cutter – it will install the software on the PC.
3. If installation media is lost download the cutter driver from the ADSI website <https://allendatagraph.com/support/software-support>

Revisions:

| Rev: | Req Date: | Change/Edit: | Req Complete: |
|------|-------------|----------------------------|---------------|
| A | 29/Oct/2021 | New documentation request. | 18/Oct/2021 |
| B | 01/Nov/2021 | Addition of edits table. | 01/Nov/2021 |
| C | 02/Nov/2021 | Finalize all formatting. | 02/Nov/2021 |
| D | 25/Jan/2022 | Edits from SME. | 25/Jan/2022 |
| E | 25/Jan/2022 | More edits from SME. | 25/Jan/2022 |

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