



Allen-Bradley Remote I/O Interface Card, Catalog No. 1784-KS

Used with I/O Monitor Software 6300-MS &
6310-MS

Installation Data

To the Installer

This publication shows you how to install the Remote I/O Interface Card (1784-KS) in your computer so it can be used with Remote I/O Monitor Software (6300-MS or 6310-MS). The card interfaces your computer to the I/O link so that data can be gathered as it is transferred between PLC-2, -3, or -5 processors/scanners and remote I/O Adapters (1771-AS, -ASB).

Compatible Computers

You can use the card with these computers:

- A-B 1784-T50 Industrial Terminal
- A-B 1784-T35 Plant Floor Terminal
- A-B 6121 and 6122 Industrial Computers
- Compaq Deskpro 286
- Compaq Portable II & III
- IBM AT

Installing the Interface Card

To install the Remote I/O Interface card in your computer, you must:

- Set jumpers.
- Insert card into any empty slot of your computer.
- Make connections to I/O

Do not connect or disconnect I/O when system is in RUN mode.

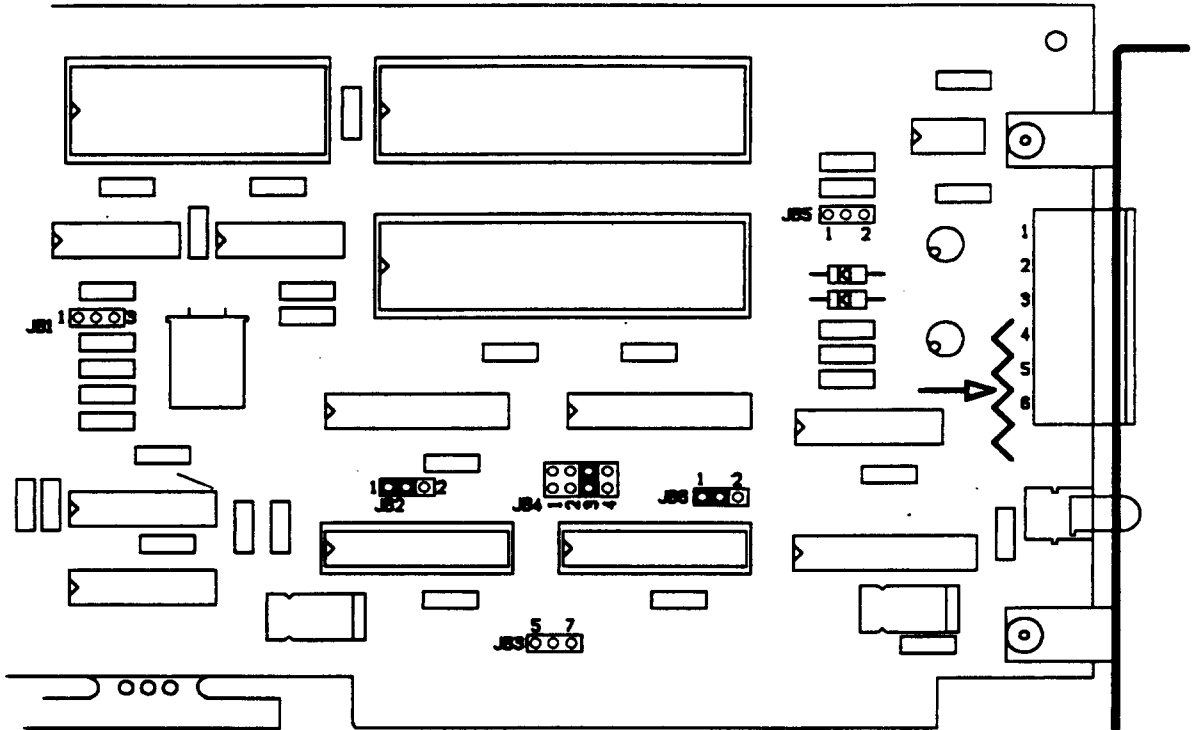
Power Requirement

+5V @ 750ma.

Set Jumpers

You set jumpers to select the memory and the output port used by the card. Figure 1 shows the location of the jumpers.

Figure 1
Jumper location



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Set Jumpers

1. Set jumper JB4 on the card to select the starting address of the 32 Kbytes of memory used by the card. Select memory not used by another Card. Possible starting addresses and settings are:

Setting	Address
1	\$C000
2	\$C800 (factory setting)
3	\$D800

2. Set jumper JB2 to select output port \$2A0 or \$280. The card is shipped with the jumper set to 1 (port \$2A0). Select a port not used by another card.

Note: We ship the card with the remaining jumper locations configured as follows:

JB1	No jumper
JB3	No jumper
JB5	No jumper
JB6	Position one

Do not change this configuration.

Insert Card into Computer

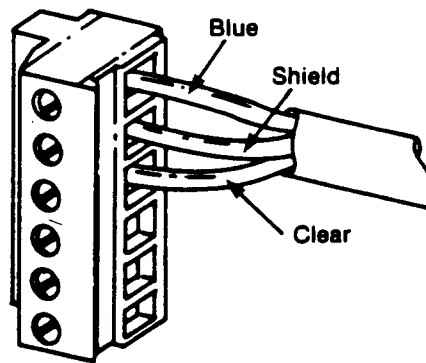
Be certain computer's power is **off**. Place the card in any empty slot of your computer. Be sure it is seated well in the baseplane connectors. Attach the retaining screw through the card's bracket.



Make Connections to I/O

1. Wire the 6-pin female connector provided with the interface card, as shown in figure 2, and attach it to the card's connector.

Figure 2
I/O interface card connections.



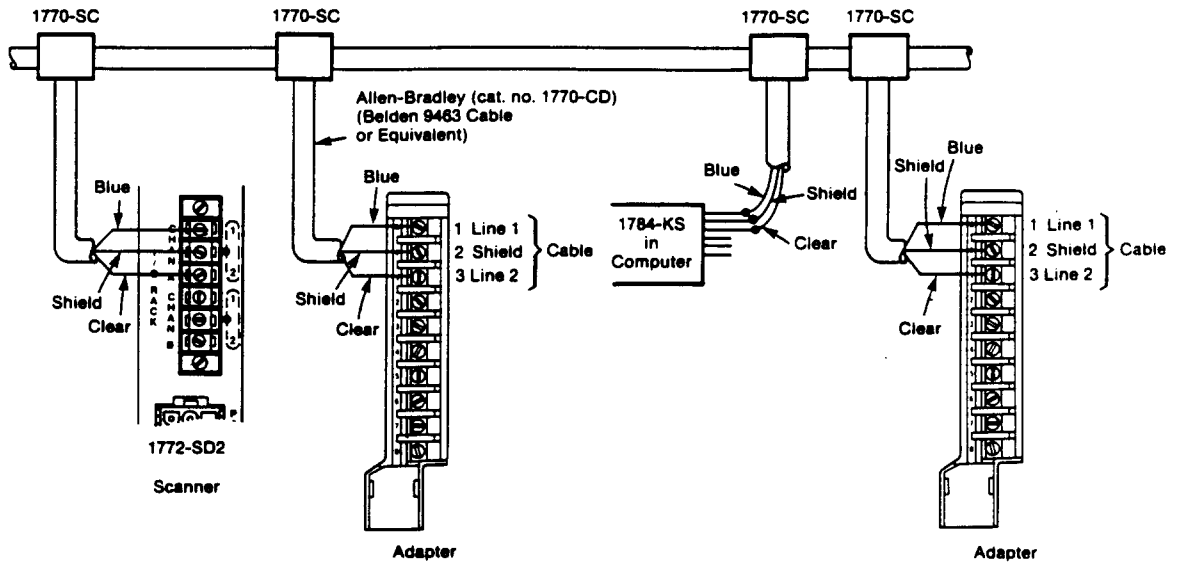
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2. Connect the interface to the I/O link. Here are the possible connections:
 - as a separate station in a trunkline/dropline configuration (figure 3)
 - as a separate station in a daisy chain configuration (figure 4)

The trunkline/dropline connection requires an A-B 1770-SC station connector **that must be ordered separately.**

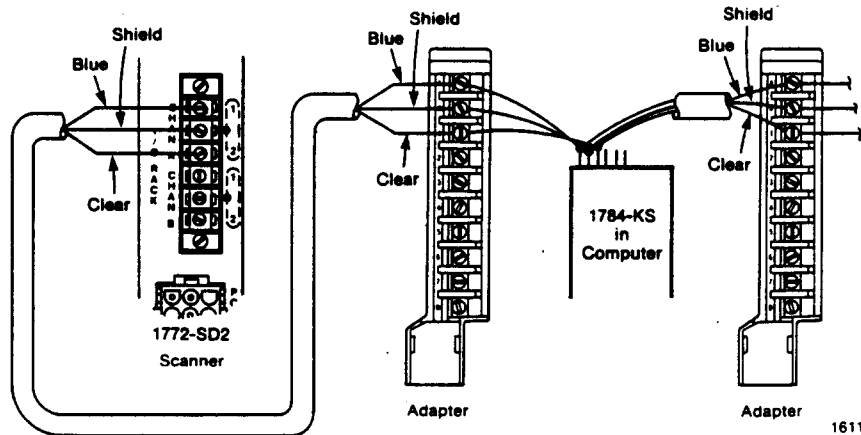
Note: If your installation is on an A-B T35 Industrial Processor, you must provide strain relief at the card-cable connection.

Figure 3
Example of a dropline connection.



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Figure 4
Example of a daisy chain connection.

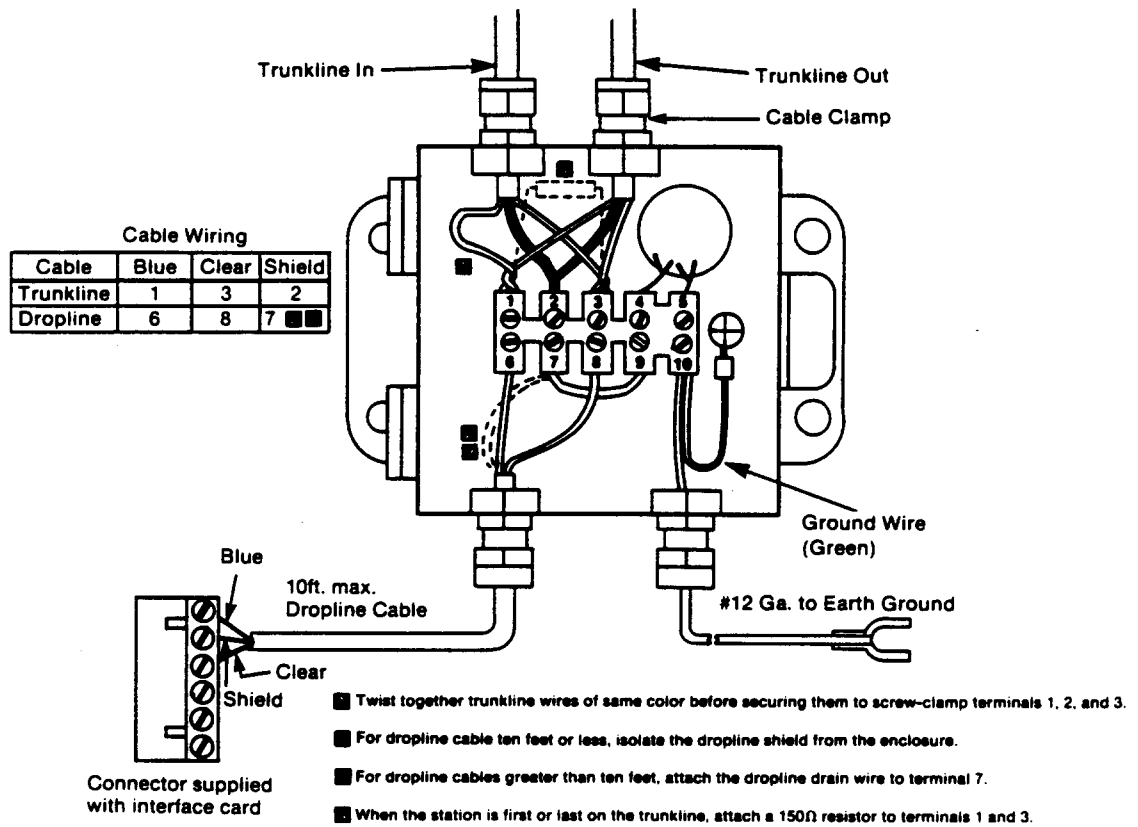


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Wiring the Station Connector

1. Remove the terminal block from inside the station connector.
2. Wire one dropline cable and two trunkline segments to the terminal block of the connector. If your computer is the first or last station on the I/O link, wire only one trunkline segment, the dropline, and a terminating resistor to the terminal block.
3. Replace the terminal block in the station connector.

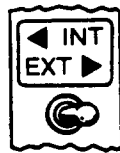
Figure 5
Station Connector Wiring



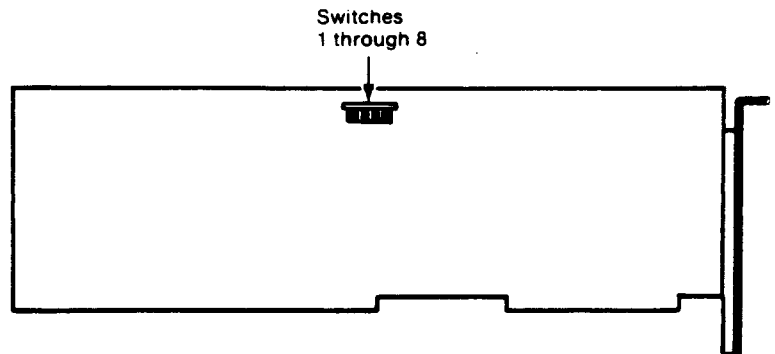
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Color graphics with a 1784-T50

An A-B 1784-T50 Industrial Terminal displays its graphics in monochrome, but it has an adapter card (standard) to accommodate a color monitor. There are two versions of the color graphics adapter (CGA) card: one has an external toggle switch, the other has an 8-switch group mounted in the top center of the card.



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Before you “button up” your computer for operation, make certain you’ve checked the multiple switches and that they are set for the kind of operation you want.

To use a color monitor with the externally switched card, toggle the switch to EXT. With the internal switches, switch 4 must be up, or ON.

To use a monochrome monitor. set the switches to the opposite positions (external, toggle switch to INT; internal, switch 4 down, or OFF).

When you use an external monitor with a T50, and the monitor selection switch is set to external, information will appear in color on that monitor and no information will appear on the T50 screen.



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