



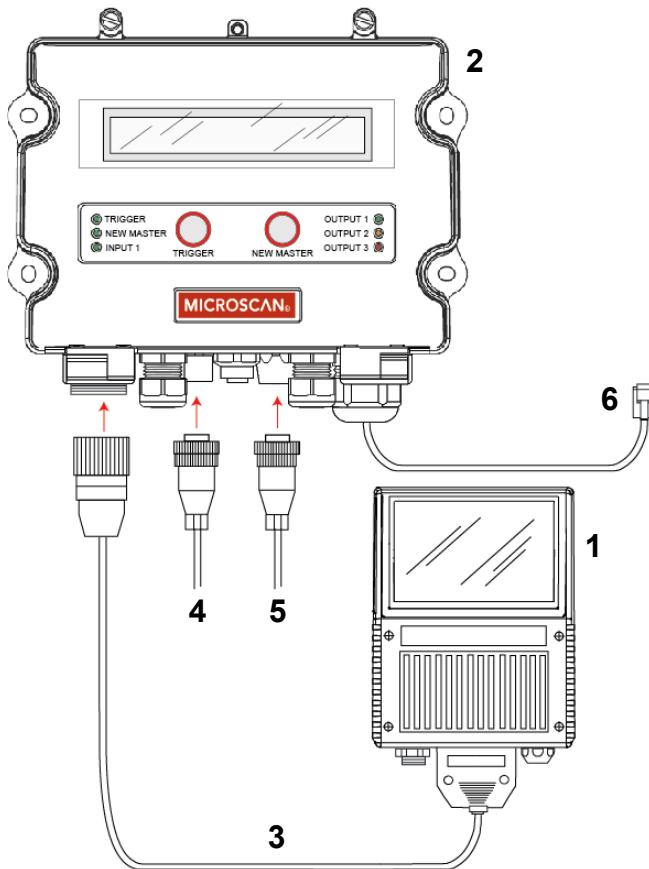
## MS-890 Ethernet Connectivity Guide

This document describes how to transition from the MS-890 with Ethernet Protocol Card to Ethernet functionality using a standard MS-890 and an Ethernet-enabled MS-Connect 210.

### MS-890 Ethernet

Originally, the MS-890 Scanner could be used as an Ethernet device in conjunction with an Ethernet Protocol Card (98-000056-02) in the scanner's wiring box. The Ethernet Protocol Card is no longer available, but a standard MS-890 can still be enabled for Ethernet connectivity with an MS-Connect 210 connectivity box.

### MS-890 and MS-Connect 210 Ethernet Hardware



- Attach the 19-pin to 25-pin Reader Cable (3) to the MS-Connect 210 (2) via the 19-pin reader connector, shown in the illustration at left.
- Tighten the 19-pin reader connector on the back of the MS-Connect 210 unit.
- Attach Ethernet cable (6) to the silver module inside the wiring box, and attach the other end to the network.
- If required by the application, attach a Trigger (5) to the MS-Connect 210 via the trigger connector, shown in the illustration at left.
- Attach the Power Supply (4) to the MS-Connect 210 via the power Micro-Change connector, shown in the illustration at left.

**CAUTION:** Be sure that all cables are connected **BEFORE** applying power to the system. Always power down **BEFORE** disconnecting any cables.

**Note:** See the *MS-Connect 210 User Manual* for detailed information about configuring the MS-Connect 210 display, wiring, and configuring output settings.

### System Matrix

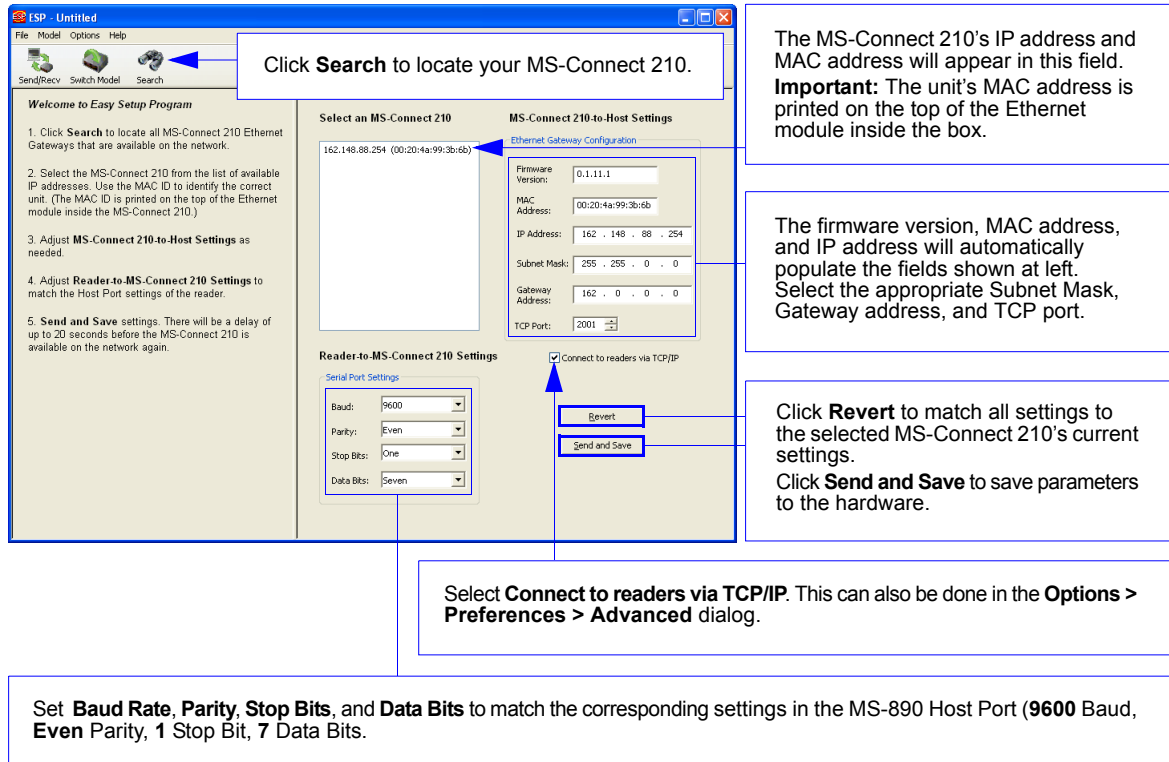
Product	Part Number	Description
(1) MS-890	FIS-0890-0001G	Industrial Automation Scanner
(2) MS-Connect 210	FIS-0210-0003G FIS-0210-0004G	Wiring Box, Ethernet, Display Wiring Box, Ethernet
(3) Reader Cable	61-000123-01	MS-890 to MS-Connect 210 cable, Host RS-232/AUX. RS-232, 6 ft.
(4) Power Supply	97-100004-15	90-264 VAC, 24VDC, USA/Euro plug
(5) Trigger (if required)	99-000004-01	Photo Sensor, Std. Diffuse, 120" range, 4-pin Plug
(6) MS-Connect 210 Ethernet Cable	User-supplied	Ethernet Cable, RJ45 Connector

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# Configuring the MS-890 and MS-Connect 210 for Ethernet

The following procedure describes how to configure a standard MS-890 and an Ethernet-enabled MS-Connect 210 for Ethernet communications.

1. Power-on the hardware configuration.
2. Launch ESP Software, select the MS-Connect 210 from the model menu, and configure MS-Connect 210-to-Host Ethernet gateway settings and MS-890-to-MS-Connect 210 serial port settings.



Click **Search** to locate your MS-Connect 210.

The MS-Connect 210's IP address and MAC address will appear in this field. **Important:** The unit's MAC address is printed on the top of the Ethernet module inside the box.

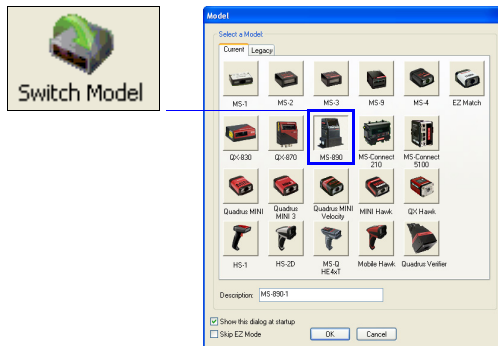
The firmware version, MAC address, and IP address will automatically populate the fields shown at left. Select the appropriate Subnet Mask, Gateway address, and TCP port.

Click **Revert** to match all settings to the selected MS-Connect 210's current settings. Click **Send and Save** to save parameters to the hardware.

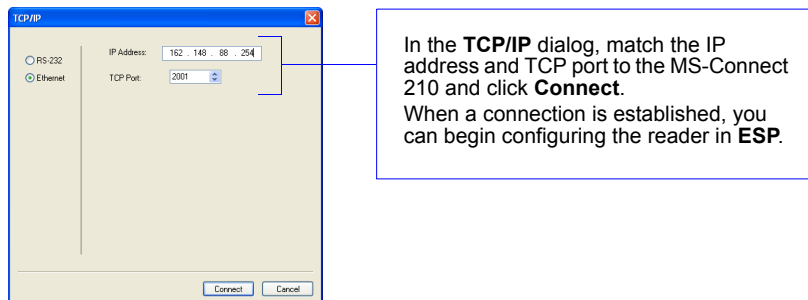
Select **Connect to readers via TCP/IP**. This can also be done in the **Options > Preferences > Advanced** dialog.

Set **Baud Rate, Parity, Stop Bits, and Data Bits** to match the corresponding settings in the MS-890 Host Port (**9600 Baud, Even Parity, 1 Stop Bit, 7 Data Bits**).

3. Click the **Switch Model** button in ESP and select the MS-890 from the model menu.



4. Select **Connection Wizard** from the **Connect** dropdown menu. Select **Ethernet**, and then set the IP Address and Primary TCP Port to match those of the MS-Connect 210.



In the **TCP/IP** dialog, match the IP address and TCP port to the MS-Connect 210 and click **Connect**. When a connection is established, you can begin configuring the reader in **ESP**.

5. When a connection is established, use ESP to configure the MS-890 as required for your application. Refer to the *MS-890 Industrial Automation Scanner User Manual* and the *MS-Connect 210 User Manual* for detailed information about hardware, communications, and configuring network parameters.