

# WinMark Pro Application Note

## Reading Serial Data in Flyer Stand-alone Mode

With the release of WinMark Pro version 6.2.0.6977, FH Flyer marking heads and Fenix Flyer Laser Markers can read Serial Port Text sent to the marking head via a commercially available serial-to-Ethernet converter while operating in Stand-alone mode. Using this approach, an RS232/RS-485/RS-422 serial data source sends data through the specified port to a serial/Ethernet converter and out over the Ethernet to the Flyer/Fenix Flyer head. This data is applied to the Text Caption property of a text object setup so its Auto Text Type property is Serial Port Text.

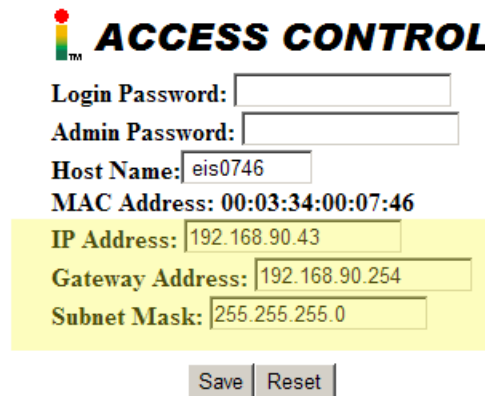
This Application Note explains the setup steps required for both the serial/Ethernet converter and the Flyer/Fenix Flyer marking head.

**Note:** The procedure described here uses an Omega EIS-W iServer Microserver Ethernet/Serial Converter. Refer to the documentation with your serial/Ethernet converter for specific setup information.

### Serial-to-Ethernet converter setup

- 1 Follow the instructions with your serial-to-Ethernet converter to complete the basic installation and setup. Your serial source may require the use of a null modem wiring connection.
- 2 Steps 3 through 6 describe the necessary communication parameters for the converter.
- 3 Assign a static IP address (not DHCP) to the converter. This address must be on the same network as the marking head.

**Example:** The Flyer marking head's Ethernet IP Address or Host Name property value is set to 192.168.90.62. The serial/Ethernet converter should be assigned a static IP address of 192.168.90.xxx where xxx is an available address on the network (excluding 1 or 255). Set the converter's Gateway Address to 192.168.90.254 and set the converter's Subnet Mask to 255.255.255.0. See Figure 1 for an example using the Omega EIS-W iServer.



**ACCESS CONTROL**

Login Password:

Admin Password:

Host Name:

MAC Address: 00:03:34:00:07:46

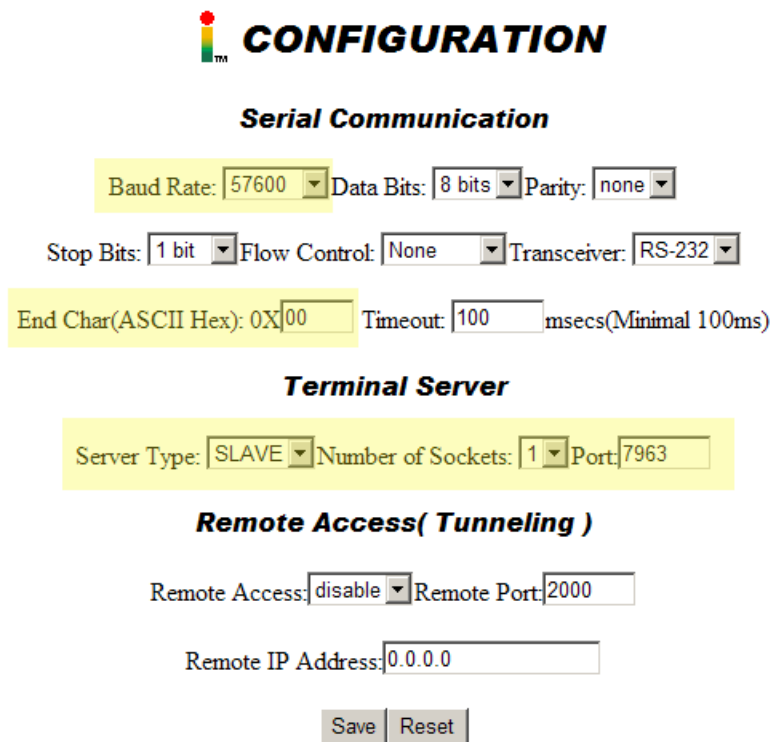
IP Address:

Gateway Address:

Subnet Mask:

Figure 1 Example Omega EIS-W iServer Address setup

- 4 Setup the converter as a slave (or server) with one (1) socket accessing Port 7963. See Figure 2 for an example using the Omega EIS-W iServer.
- 5 Set the converter's baud rate to maximum allowed by device. If connection issues, like drop off or bad data occur, reduce the baud rate until the problem is eliminated (Figure 2).
- 6 Set the converter's data string for NULL character termination as shown in Figure 2.



**CONFIGURATION**

**Serial Communication**

Baud Rate: 57600 Data Bits: 8 bits Parity: none

Stop Bits: 1 bit Flow Control: None Transceiver: RS-232

End Char(ASCII Hex): 0X00 Timeout: 100 msecs(Minimal 100ms)

**Terminal Server**

Server Type: SLAVE Number of Sockets: 1 Port: 7963

**Remote Access( Tunneling )**

Remote Access: disable Remote Port: 2000

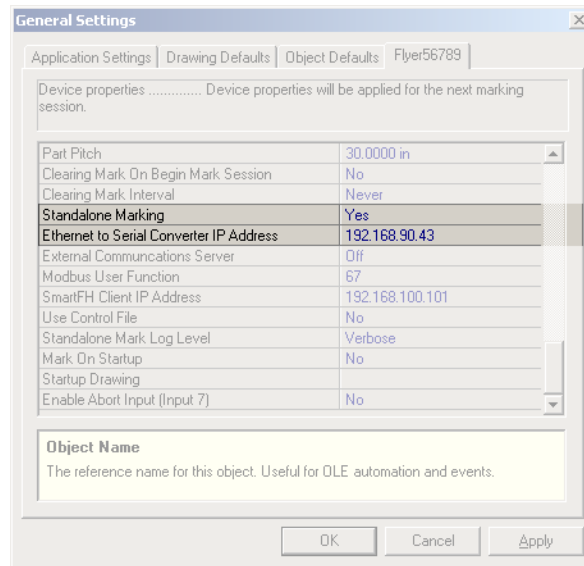
Remote IP Address: 0.0.0.0

Save Reset

**Figure 2 Example Omega EIS-W iServer Configuration setup**

#### Flyer/Fenix Flyer setup

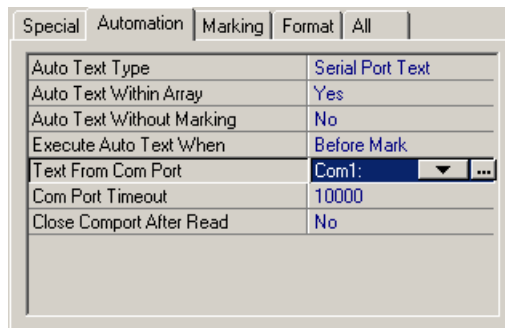
- 1 In WinMark Pro, on the Flyer device tab, set the head's Standalone Marking property to Yes (see Figure 3).
- 2 Using WinMark Pro (or your ActiveX application), set the Ethernet to Serial Converter IP Address property to the static IP address established in Step 1 (in our example, 192.168.90.43). See Figure 3.



**Figure 3 Flyer setup**

#### WinMark Pro mark object setup

- 1 As shown in Figure 4, set the Auto Text Type property for your text object to Serial Port Text. This means that prior to marking in Stand-alone mode, Flyer will query the serial source for the character string to be used as the text object's Text Caption property.



**Figure 4 WinMark Pro setup**

**Note:** All Text From Com Port parameters (available by clicking the ellipsis (...) button) are irrelevant because the Flyer/Fenix Flyer head is receiving data via Ethernet, not a serial port.

For further information, contact SYNRAD at 1.800.796.7231; outside the U.S., dial +1.425.349.3500 or fax us at +1.425.349.3500. Send email to: [support@synrad.com](mailto:support@synrad.com).