MSS100 / MSS-VIA / MSS4 Device Servers

MSS100 / MSS-VIA / MSS4 Quick Start Guide

LANTRONIX®

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MSS100 / MSS-VIA / MSS4 QUICK START CONTENTS

SYSTEM OVERVIEW

Device Networking starts with a Device Server™, which enables virtually any device with a serial port (RS-232, RS-422/485) to connect to Ethernet networks quickly and cost effectively.

The MSS family of Device Servers includes all of the elements needed for device networking - a processor, an operating system, a robust TCP/IP stack, a web server, and a network connection to provide an Ethernet bridge to serial devices.

The MSS connects to virtually any serial device, for example:
- Barcode scanners
- Card readers and receipt printers
- Scales
- Automation equipment, PLC, and motor drives
- LED message displays
- Medical blood analyzers and ventilators
- Security and access control systems

Our approach to device networking is transparent to your software and attached devices - meaning that you won't need to a make any software or configuration changes. It's also scalable and does not require a server or gateway, giving you the flexibility to tackle a project of any size.

The MSS Device Servers are equipped with high-speed asynchronous serial ports supporting baud rates between 300 and 230.3k bits per second, and a 10/100 Ethernet port. In addition, the MSS-VIA has a PC card interface providing 802.11 wireless access to connected devices.

This Quick Start guide explains how to connect, configure, and troubleshoot your unit. For more detailed information and alternative configuration methods, refer to the User Guide and Reference Manual on the CD ROM supplied with this product.
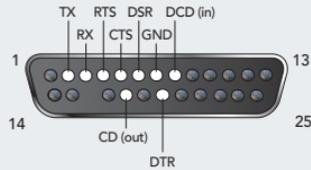
WHAT'S IN THE BOX

In addition to the MSS, the box contains the following items:

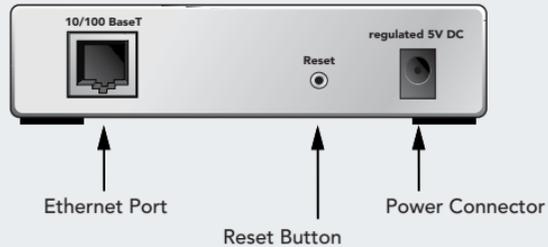| Part #	Component Description
MSS100	
--	Documentation CD-ROM and Quick Start Guide
520-036	For the MSS100-11, power cube with cord
520-062	For the MSS100-12, power cube with international adapters
520-050	For the MSS100-14, desktop IEC power cube with US domestic cord
MSS-VIA	
--	Documentation CD-ROM and Quick Start Guide
520-061	Power cube with cord
MSS4	
--	Documentation CD-ROM and Quick Start Guide
520-061	For the MSS4-D-01, power cube with international adapters

MSS100 FRONT

Serial
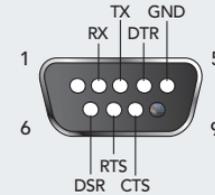
DB25 SERIAL CONNECTOR (DTE DB25 Male)

TX   RTS   DSR   DCD (in)
RX   CTS   GND
1   13
14   25
CD (out)
DTR

MSS100 REAR

10/100 BaseT
regulated 5V DC
Reset

Ethernet Port

Reset Button

Power Connector

MSS-VIA FRONT

console/serial 2   reset   serial 1

DB25 SERIAL CONNECTOR (DTE DB25 Male)

TX   RTS   DSR   DCD (in)
RX   CTS   GND
1   13
14   25
CD (out)
DTR

1   13
14   25
TX-   RX-
TX+   RX+

DB9 RS-232 SERIAL CONNECTOR (DTE DB9M)

TX   GND
RX   DTR
1   5
6   9
RTS
DSR   CTS

MSS-VIA REAR

10/100/port T
PC card
7-24VDC

MSS4 FRONT

10/100BaseT

Link
OK

Serial 1
Console

Serial 2

Serial 3

Serial 4

Serial1
Serial2
Serial3
Serial4

RJ45
Ethernet
Port

DB9 Serial
Console Port

DB9 Serial Ports

DB9 RS-232 SERIAL CONNECTOR

TX GND
RX DTR

1

5

6

9

RTS
DSR CTS

MSS4

Screw Block
Power Connector

Reset

9-30VDC
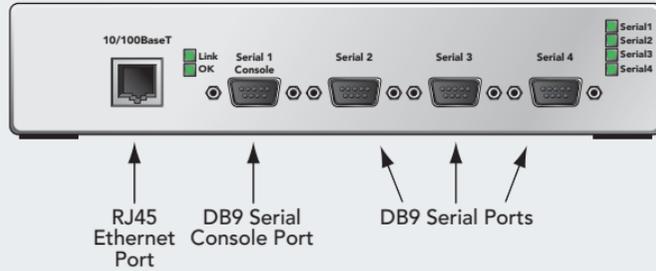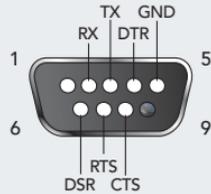
IP ADDRESSING

Your unit must have a unique IP address on your network.

The systems administrator generally provides the IP address. The IP address must be within a valid range, unique to your network, and in the same subnet as your PC. You'll need the following information before you set up the unit. (See Assign IP.)
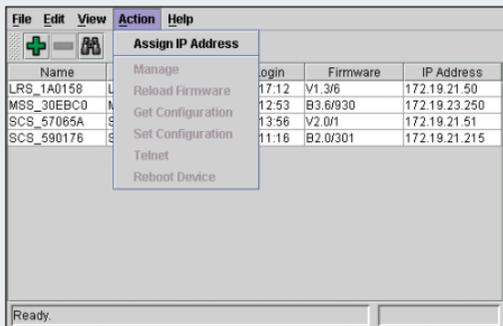
IP Address: ___ ___ ___ ___
Subnet Mask: ___ ___ ___ ___

CONNECT

1) Mount or place the MSS in a secured room.
2) Connect serial devices to the serial ports.
3) Connect your network to the MSS (via one of its Ethernet ports or the PCMCIA slot, if applicable).
4) Connect the power supply to the MSS.
5) Wait about 30 seconds.
6) Confirm the following:
   a) OK LED blinks green
   b) Link LED glows green
7) If the MSS is connected to the network via the PC card slot or Ethernet, confirm the following:
   a) PC Card LED glows green
   b) 100 LED glows green if there is a 100Mb connection

ASSIGN IP

1) Open EZWebCon on the CD-ROM.

EZWebCon Home Page

Note: The EZWebCon wizard walks you through the process of assigning an IP. The **Next** button at the bottom of each EZWebCon screen advances you to the next step in the process.

2) Click **Action ➔ Assign IP Address**.
3) Select the MAC address of your SCS device and click **Next**.
4) Select **Assign Specific IP** and click **Next**.
5) Type your IP Address.
6) Confirm the Subnet Mask Address.
7) For **Gateway**, select **None**.
8) Click **Next**.
9) Click the **Assign IP** button.
10) Click the **Done** button.

Note: Your device name and IP address should be listed in the EZWebCon window. If it is not, minimize and then restore the window.

CONFIGURE

1) In the EZWebCon window, click the device name you wish to configure.
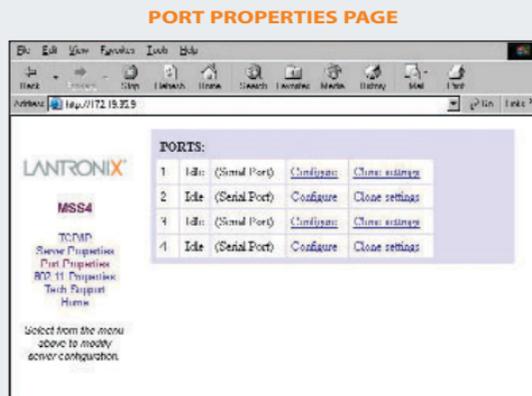2) Click **Action ➔ Manage**.
   Note: Your Web browser opens, displaying the Server Configuration window.

SERVER CONFIGURATION
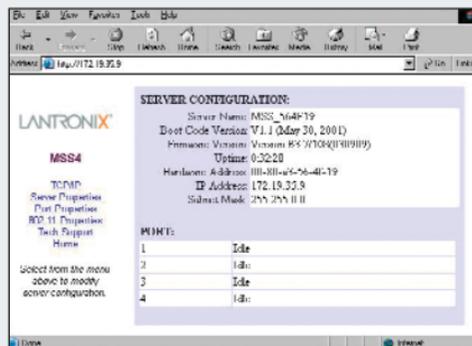
CONFIGURE (CONT.)

4) Configure a group of settings:
   a) Select a link from the left navigation column, for example, **Ports**.
   b) Enter the password, **system** and press **Login**
   c) Confirm that a window similar to this displays:

PORT PROPERTIES PAGE

d) Click the **Configure** link for the port you want to configure.

e) Confirm that the following screen displays:

SERIAL PORT SETTINGS PAGE
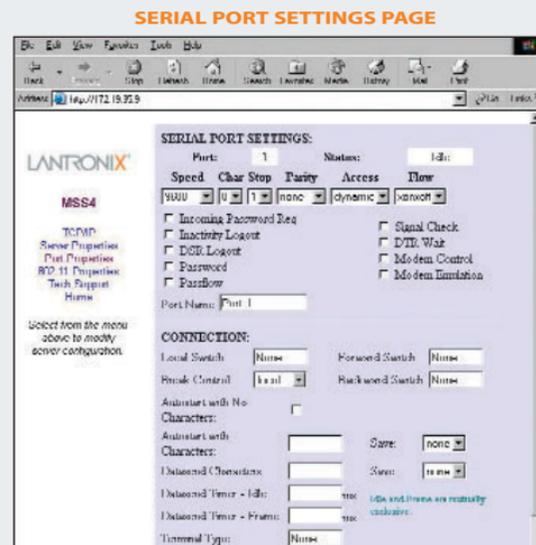
f) Configure the port settings and click the **Update Port Settings** button at the bottom of the window when finished.
5) Repeat step 4 for the other groups of settings.
6) To close the active sessions and implement the changes, power cycle to reboot.

TROUBLESHOOT

LEDs on the top of the MSS indicate Ethernet and serial activity. The significance of these LEDs is explained in the following table:

LEDS	COLOR	MEANING
Serial	Green blinking	Serial transmissions
OK	Amber/red blinking	Not booting
OK	Green blinking	SCS functional
PC Card	Green	Card functioning
PC Card	Amber blinking	Card recognized
PC Card	Red blinking	Card not recognized
100	Green	100Base-T valid
Link	Green	10/100Base-T valid

CONTACT INFORMATION

For questions and technical support, please check our online knowledge base at **www.lantronix.com/support**

If you need additional help call us at:
(800) 422-7044   Domestic
(949) 453-7198   International
(949) 450-7226   Fax

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