Chapter 1

How to Use This Manual

This chapter presents general information about how to use this manual.

- *Equipment Integration Manual Application*

- *EIM Update Summary*

- *Manual Organization*

- *Manual Conventions*

- *Technical Support*

Equipment Integration Manual Application

This manual supports software version 9.6. If the tool is running a different software version, refer to the manual that supports that version.

This manual can be used as a learning tool by those unfamiliar with the Equipment and as a reference by experienced users. This manual is specifically intended for the following personnel:

- Factory Automation Engineers
- Engineers (Tool Owners) responsible for the Equipment
- XXX Engineers/Technicians
- Equipment Operators

EIM Update Summary

Updates included in this Equipment Integration Manual for v9.6.xxx are listed below.

Table 1-1: **EIM Updates**

Section/ Table on Page	Updates
E84 Configuration	Added "TA1 Error Recovery" on page 39.

Manual Organization

This manual provides information regarding the SECS/GEM User Interface. The general contents of each chapter are as follows:

- **Chapter 1:** *Chapter 1, How to Use This Manual* provides information about this manual, including its organization, manual conventions, and technical support contact information.

- **Chapter 2**: *Chapter 2, System Overview* introduces the user to any new features in this software release, the XXX Wafer Inspection System, and the SECS/GEM interface software packaged with the system. The chapter also provides information regarding compliance with applicable industry standards.

- **Chapter 3:** *Chapter 3, Software Configuration* provides instructions for configuration and set up of the SECS/GEM interface software and other software components on the XXX Wafer Inspection System.

- **Chapter 4:** *Chapter 4, 300-mm SEMI Standards* presents information describing functional implementation of the 300-mm SEMI standards as applicable to the Equipment.

- **Index:** Provides an easy way to go to your topic of interest quickly.

Manual Conventions

Conventions used in this manual include

- Chapter content summaries

- Notes, tips, and important information

- Typographic and keyboard conventions

- Links and Cross-References conventions

Chapter Summary

Each chapter begins with a short content introduction and a list of all major sections.

Notes, Tips and Important Information

Special notes, tips and important information to the reader are emphasized with the following conventions:

NOTE
General information which is intended to clarify a process, procedure or concept.

TIP
Information on methods or techniques which may be helpful to effectively execute a procedure or utilize a feature.

IMPORTANT
Highlights information that requires careful attention in order to attain optimum equipment performance or to avoid potential problems.

Typographic and Keyboard Conventions

The typographic and keyboard conventions listed in Table 1-2 are used to indicate button and menu names, types of text to be entered, and specific actions to be performed.

Table 1-2: **Typographic and Keyboard Conventions**

Convention	Description
ITALIC CAPS	Indicates the name of a button.
Italic	Indicates the name of a menu or file name. May also be used to emphasize key words, notes or phrases.

Table 1-2:   **Typographic and Keyboard Conventions**

Convention	Description
Bold	Text that must be entered is indicated in boldface type. Type the uppercase and lowercase letters exactly as shown. May also be used to emphasize special menu options, key words and terms.
[Enter]	Press the key on the keyboard labeled with the text in brackets. In this example, press the Enter (or Return) key).
[spacebar]	Keys that are not labeled on the keyboard are lower-case and in brackets. In this example, press the spacebar.
[A]+[B]	'+' indicates that the keys must be pressed at same time, then released. For example, [Ctrl] + [P].

Technical Support

If you are in need of additional information or require assistance:

- For technical assistance with equipment operation, service, or maintenance, contact the Customer Response Center (CRC) at 1-800-600-2829 (USA) or the CRC that supports your location (refer to http://www.XXX.com/support/).

- For information on system options or to purchase additional hardware or software, contact your local XXX Sales Representative or contact XXX Corporate Sales.

Chapter 2

System Overview

This chapter provides a general overview of the factory automation software features included with the XXX Wafer Inspection System, a description of the Wafer Inspection System and the factory Host computer, definitions of some key terms used throughout this manual, a description of the SECS/GEM Interface, and a section that addresses compliance with applicable industry standards.

- *Wafer Inspection System*

- *Equipment and Host Definitions*

- *SECS/GEM Interface*

- *Standards Compliance*

Wafer Inspection System

The XXX Wafer Inspection System is a fully automated system that uses digital image processing to detect yield-limiting defects on semiconductor wafers. Once detected, the defects can be reviewed, sorted, and classified. The defect inspection results data and images can also be transferred to an Analysis System for analysis and storage.

Factory Host

The Factory Host computer is the computer used as the intelligent system that communicates with the Wafer Inspection System and coordinates its operation with other related equipment in the factory. The Host computer communicates with the Wafer Inspection System via RS232 or HSMS (Figure 2-1). For further information regarding HSMS, see "High-Speed SECS Message Services" on page 18.
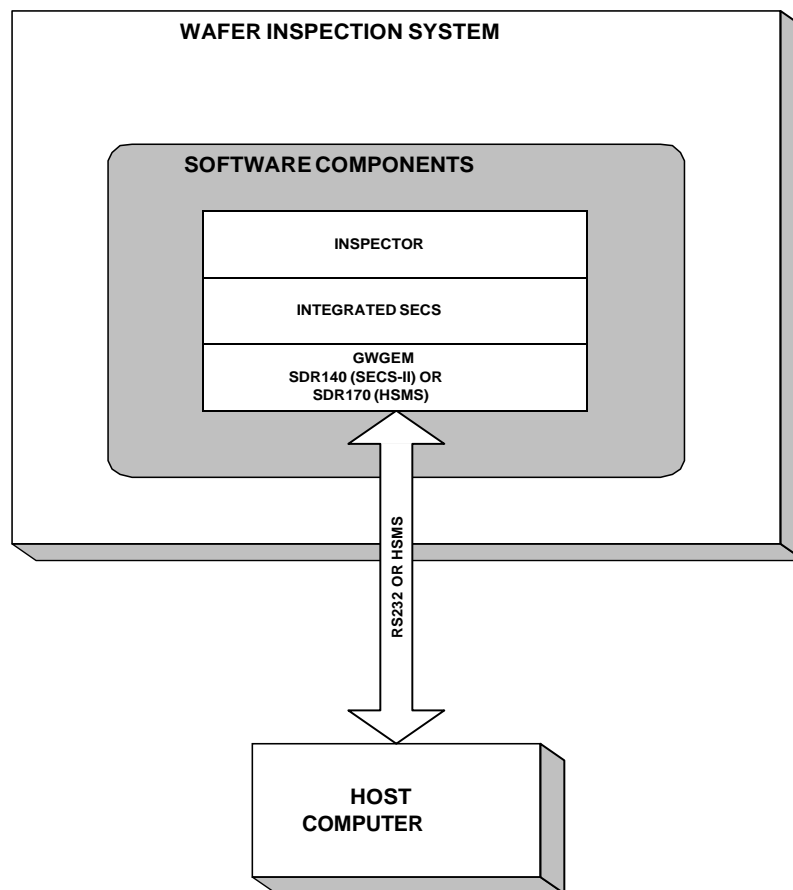

Figure 2-1:   **System Configuration with ISECS via RS232 or HSMS**

Equipment and Host Definitions

Equipment The term "*Equipment*" refers to the XXX Puma Wafer Inspection System.

Host The term "*Host*" refers to the computer used as the intelligent system that communicates with the Equipment.

Software This software release incorporates all the software design features represented in this manual. Legacy provisions in the software design provide backward compatibility with prior software versions, therefore references to these prior software versions in sections of this manual describe the origin of a design feature. For example, a reference to software version 9.X indicates that the feature described is compatible in all 9.X-series software design.