



**INSTALLATION AND
CONFIGURATION
HPX-1600**

**PREFACE
SP4-6-0**

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1. PREFACE

This document is a field guide for the hardware installation and initial configuration of the Haliplex Products HPX-1600-IA, HPX300-SS and HPX-1600-EV.

The manual is divided into chapters for easy reference. The index outlining the chapters is located in the document titled "Index". Each chapter also contains a table of contents for that particular chapter.

This guide describes how to unpack and install the main hardware chassis and the installation and removal of IMs. The installer is introduced to the operation of the front panel and diagnostic features of the HPX-1600 products and the interpretation of the front panel displays. HPXView is introduced for basic port configuration and connection.

1.1. AUDIENCE

This document is intended for use by Communications Technical staff who will physically install and maintain the HPX-1600 in a private or public voice and/or data service network.

Installing technicians should be familiar with the communications network protocols, nature and requirements of services and systems connected to the HPX-1600.

1.2. COPYRIGHT & FURTHER COMMUNICATIONS

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1.3. CONVENTIONS

This publication uses the following conventions;



Note: contains information that may be useful to the reader.



Caution: specifies important information that will assist with a successful implementation of the product described.



Warning: contains information that may impact on issues of personal safety.

1.4. WARRANTY

Haliplex HPX-1600 products carry a one year warranty, the details of which are contained in the "Warranty Card" included with the product packaging. Please register your Haliplex Product for warranty purposes. Warranty registration is by a web form on the Haliplex web site at <http://www.Haliplex.com.au/warreg.htm>.

Registration of the product will provide you with a username and password for access to the support web pages. The support web provides the latest functionality and troubleshooting information, product documentation and downloads.

2. SUMMARY OF CHAPTER REVISIONS

This section summarises the revisions of each chapter in the Haliplex Product Manual. Each revision is listed with the date it was most recently revised, in the date format day-month-year.

2.1. SECTION 1: HALIPLEX PRODUCT OVERVIEW

Chapter 1-1: Introduction to Haliplex Products

Revision 4.03 21-06-05

Chapter 1-2: HPX-1600 Chassis and Operating Environment

Revision 4.04 13-07-06

Chapter 1-3: Integrated Access (IA) Product Specifics

Revision 4.05 20-06-05

Chapter 1-5: SDH-SONET (SS) Product Specifics

Revision 4.11 16-05-08

Chapter 1-6: SDH Point to Point Example

Revision 4.06 21-06-05

Chapter 1-7: SONET OC-3 Ring UPSR Example

Revision 4.05 21-06-05

Chapter 1-8: SDH Linear ADM Example

Revision 4.04 29-11-04

Chapter 1-10: EV Product Specifics

Revision 4.07 24-04-06

2.2. SECTION 2: HALIPLEX INTERFACE MODULES

Chapter 2-1: Haliplex Interface Module Overview

Revision 4.04 16-05-08

Chapter 2-2: HPX-1620-IM-E1 Dual E1 IM

Revision 4.09 23-03-07

Chapter 2-3: HPX-1633-IM MPS IM

Revision 4.06 21-06-05

Chapter 2-3a: HPX-1634-IM MPS-2 IM

Revision 1.0 20-06-08

Chapter 2-4: HPX-1670-IM Ethernet IM

Revision 4.06 15-10-07

Chapter 2-5: HPX-1621-IM Dual FXS IM

Revision 4.08 29-07-05

Chapter 2-6: HPX-1601-IM Dual E&M IM

Revision 4.08 03-03-06

Chapter 2-7: HXP-1614-IM LSF IM

Revision 4.06 01-08-05

Chapter 2-8: HPX-1610-IM HSF IM

Revision 4.06 01-07-05

Chapter 2-9: HPX-1680-IM STM-1 (OC-3) IM

Revision 4.05 14-08-07

Chapter 2-10: HPX-1630-IM E3/DS3 IM

Revision 4.04 06-05-05

Chapter 2-11: HPX-1620-IM-T1 Dual T1 IM

Revision 4.09 27-08-07

Chapter 2-12: HPX-1672-IM Dual Ethernet IM

Revision 4.06 10-09-07

Chapter 2-13: HPX-1640-IM-E1 Octal E1 IM

Revision 4.07 26-06-08

Chapter 2-14: HPX-1640-IM-T1 Octal T1 IM

Revision 4.08 26-06-08

Chapter 2-15: HPX-1638-IM Dual CoD IM

Revision 4.05 23-03-05

Chapter 2-16: HPX-1632-IM ET3M (M13) MUX IM

Revision 4.06 05-07-05

Chapter 2-17: STM-1 (OC-3) Linear (1+1) IM

Revision 4.05 21-08-07

Chapter 2-19: HPX-1623-IM Dual FXO IM

Revision 4.07 05-07-05

Chapter 2-20: HPX-1680-IM-EL STM-1 Electrical (STS-3) IM.doc

Revision 4.00 15-02-05

Chapter 2-21: HPX-1636-IM TeleProtection Fibre IM

Revision 4.05 26-06-08

2.3. SECTION 3: HPXVIEW**Chapter 3-1: HPXView Setup and Configuration**

Revision 4.05 04-09-07

Chapter 3-2: Node and Network Clocks

Revision 4.03 03-12-04

Chapter 3-3: Digital Access Cross Connect Switch

Revision 4.02 03-12-04

Chapter 3-5: SDH Tributary Connections

Revision 4.04 10-10-05

Chapter 3-6: Remote Management of Haliplex Products

Revision 4.08 22-08-05

Chapter 3-7: Ethernet - Tributary Connections

Revision 4.07 01-11-07

Chapter 3-7a: E-line Switch - Ethernet Tributary Connections

Revision 1.0 08-05-08

Chapter 3-8: E3-DS3 MUX Connections

Revision 4.03 20-10-05

2.4. SECTION 4: APPLICATIONS**Chapter 4-1: Voice Networking Applications**

Revision 4.05 07-12-04

Chapter 4-3: MPS DCE/DTE Clocking

Revision 4.04 21-06-05

2.5. SECTION 5 – APPENDICES

Appendix A: Haliplex Cables

Revision 4.02 21-06-05

Appendix B: FXO Server

Revision 1.01 25-09-02

Appendix C: Software Upgrade

Revision 4.01 16-11-04

Appendix E: Types of Signalling for Voice Networks

Revision 4.05 12-08-05