

Product Brief

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Overview

The IPS FIVE interpreter from Zoran provides a complete PCL 5 printing solution for color and monochrome printers and multifunction peripherals (MFPs). The interpreter is integrated with Zoran's rich featured embedded foundation technology—IPS—enabling OEMs to develop high quality printers and MFPs that support the PCL 5 printing standard. IPS FIVE

supports the PCL 5e language as implemented in the hp LaserJet 4250 series of printers and the PCL 5C language as implemented in the hp Color LaserJet 5500 and Color LaserJet 4700 series. IPS FIVE implements all PCL 5C commands specified in the Hewlett-Packard PCL 5C Color Technical Reference Manual and the HP PCL 5 Specification.

Benefits

- Single interpreter provides high quality monochrome and color printing solution with full compatibility to Hewlett Packard's PCL 5e and PCL 5C
- Source code availability provides design flexibility and facilitates value added customization
- Integrated with Zoran's Onelmage™ common display list technology to support multi-bit and contone output devices

Key Features

- Supports print resolutions up to 1200 dpi
- Supports color commands on monochrome devices
- Provides complete HP-GL/2 support
- Supports Monotype Imaging UFST 5.0.1 (MicroType 2 and MicroType 3), Bitstream Font Fusion Printing 3.0 fonts and UTF-8 encoding
- Can be combined with the other languages in IPS—IPS XLC, IPS PS3, IPS PDFt and IPS XPS—for complete print functionality

Description

Support Widest Variety of Applications

IPS FIVE is compatible with the widest range of applications, office printers and MFPs. Zoran's implementations offer full compatibility to the Hewlett-Packard standard. A single interpreter can be used to build either monochrome or color devices—both types of devices accept color PCL 5 commands for compatibility with newer Hewlett-Packard LaserJet printers.

IPS FIVE features sophisticated image processing, memory management and compression techniques for high quality. Additionally IPS FIVE includes accurate and fast rendering of raster operations (ROPs) in both the CMY and CMYK color spaces. IPS FIVE also offers the innovative Smart Black technology, that discerns if PCL 5C files contain no color data and prints such files using only the K plane on color engines, resulting in faster monochrome print cycles..

Zoran provides complete source code for the IPS FIVE interpreter and a full set of engineering documentation to allow OEMs to customize the interpreters for specific market requirements.

IPS FIVE, combined with IPS XLC, provides a complete printing solution compatible with Hewlett-Packard's PCL 6 as implemented in the hp LaserJet 4250 series, hp Color LaserJet 5500 series and Color LaserJet 4700 series.

Zoran Engineering Support Services

Zoran offers Source Code Maintenance and Engineering Support Programs that can shorten development cycles and ensure that the latest PCL language features are available as new controllers are developed. The IPS FIVE source code license includes technical support, software integration training and source code maintenance. The Source Code Maintenance Program provides extended source code maintenance and technical consulting, including informative technical bulletins and software patches and updates.

Zoran's Engineering Support Program provides direct software integration assistance and design recommendations to optimize the interface between the PCL 5 compatible interpreter and the controller. OEMs can also work with a Zoran-authorized development partner. These companies have experience in Zoran's IPS FIVE software integration and can offer fixed-cost, turnkey controller development for a range of controller configurations and print engines.

IPS FIVE

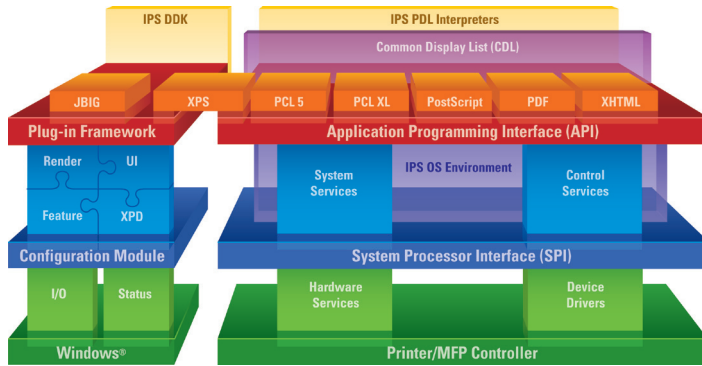
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PCL 5 COMPATIBLE INTERPRETER

Product Brief

Description (continued)



IPS Architecture

Specifications

Compatibility

- PCL 5e as implemented in HP's LaserJet 4250 series
- PCL 5C as implemented in HP's Color LaserJet 5500 series and HP's Color LaserJet 4700 series
- PJP as implemented in HP's LaserJet 5SI

Print Resolutions

- 300, 400, 600, 1200 and 1200 x 600 dpi

Output Color Models

- 1, 2, 4 and 8-bit pixel depths
- Monochrome, RGB, CMY and CMYK by plane
- Monochrome, CMY and CMYK by band
- RGB by pixel (8-bit only)

Fonts

- Monotype Imaging UFST 5.0.1
- Bitstream Font Fusion Printing 3.0

Memory Requirements

- Monochrome: 4 MB (600 dpi, 1-bit)
- Color: 8 MB (600 dpi, 1-bit)

Paper Size

- Executive, letter, legal, ledger, A3, A4, B4, B5, envelope, others

Duplex Printing Support

N-up Printing Support

Quality Assurance

- QualityLogic ATS, FTS and CET

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