



# Qualcomm® DirectOffice™ Document Conversion Software

Document conversion software designed to render Microsoft Office documents into high-fidelity output.

DirectOffice enables convenient walk-up printing. The DirectOffice software resides within the printer firmware and renders documents directly on the printer, enabling printing from virtually any source.

Today, more and more users are working away from their desks and PCs, and documents are often stored in the cloud or on mobile storage devices and are accessed on phones and tablets. Users want to print their documents no matter where the documents are stored or what device is being used.

In addition, users are now depending on their printers and multi-function printers (MFPs) to do more than ever before. They want to access, view and print their documents right from the control screen using SmartMFP apps running on the device. These users want all their documents to be available, not just images and PDF documents.

A new way to securely and accurately print documents from wherever they are stored and from any connected devices is needed.

DirectOffice meets this need by enabling printing of the most popular business document types—Word, Excel and PowerPoint—without the need of a PC, print driver, Microsoft application or cloud printing service. By enabling direct printing of such documents on the printer itself, DirectOffice is designed to ensure that secure and accurate printing and viewing is always available.

## Solution Highlights

### High-fidelity rendering

DirectOffice output closely matches Microsoft Office output. Regardless of the version used to create the original, DirectOffice correctly places text and paragraphs, accurately displays images, shapes, tables, WordArt and SmartArt, and retains line and page breaks.



### Innovative font emulation

DirectOffice software emulates over 700 fonts across 45 languages to ensure great text rendering and worldwide compatibility. This patented font solution requires only limited memory, as is typical in an embedded environment, and removes the need for costly font licensing.



### Flexible delivery options

DirectOffice software can be delivered as part of the Qualcomm® IPS™ Universal Print Interpreter for embedding into print firmware on a printer or as an SDK for use in software solutions to enable web, desktop or mobile conversion.



### Development support

The DirectOffice team of developers, with years of experience in creating DirectOffice and print interpreters for page description languages (PDLs), are ready to help manufacturers integrate DirectOffice successfully.



### Proven solution

Our Printer and Imaging team has been focused on format conversion solutions for over 30 years and has invested 100+ person years in Office format conversion to develop a best-in-class solution for multiple markets. DirectOffice conversion has been used to convert over a billion documents for viewing and printing worldwide.





# DirectOffice Walk-up Print Applications

- Cloud Storage
- Tablet/Smartphone
- Network Folder
- Smart MFPs
- USB Flash Drive
- IoT Connected Devices
- Pass-through apps (e.g. Mopria Print Service)

## Microsoft Office

Word Test Document version 2.0 Created Nov, 2017, using Office 2016 on Windows 10 PC

### This is Title Style

Date & Time: 12/4/2017 10:10 AM

This is heading 2 text  
 This is intense emphasis text. This is Quote text. THIS IS SUBTLE  
 REFERENCE TEXT. This is hyperlink text: Google, Yahoo. THIS IS BOOK  
 TITLE TEXT. This is subtle emphasis text. This is strong text.

- Bullet text 1
  - Bullet text 2
  - Bullet text 3

1. Number bullet 1  
 a. Number bullet 2  
 i. Number bullet 3

Table

Table	Revenue	Breakdown
Region 1	\$65K	1a \$35K 1b \$30K
Region 2	\$35K	NA

Clustered Column Chart in 3D

Stacked Area Chart

Test Wavy WordArt  
 Test WordArt  
 Test Deflate WordArt  
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Text box Sample 2

The quick brown fox jumped over the lazy dog - Arial 12 point  
 The quick brown fox jumped over the lazy dog - Arial Narrow 11 point  
 The quick brown fox jumped over the lazy dog - Comic Sans 9 point  
 The quick brown fox jumped over the lazy dog - Monotype Corsiva 11.5 pt  
 THE BROWN FOX JUMPED OVER THE LAZY DOG - ENGRAVERS - 6.5 POINT  
 The quick brown fox jumped over the lazy dog - Calibri 11 point  
 The fox jumped over the dog - Lucida Hand 10 pt  
 The fox jumped over the dog - Consolas 11 point

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## DirectOffice

Word Test Document version 2.0 Created Nov, 2017, using Office 2016 on Windows 10 PC

### This is Title Style

Date & Time: 12/4/2017 2:49 PM

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## Walk-up Printing Support

Walk-up printing support for images and PDF files is already a common feature in today's printers and MFPs, but support for the most popular file formats—Word, Excel and PowerPoint—is often missing. Now, for the first time, high-fidelity, walk-up printing of Office documents is available with DirectOffice Embedded Print.

Enable "Print anything, anywhere" by hosting file conversion right in your printer, allowing users to print documents on-the-go, without having to use a pre-configured cloud print service or return to their PC to print.

To learn more visit: [qualcomm.com](http://qualcomm.com)



## Specifications

### Input Format Support

- Word: ".doc", ".dot", ".docx", ".docm", ".dotx" & ".dotm"
- Excel: ".xls", ".xlt", ".xlsx", ".xltm", ".xltx" & ".xlsm"
- PowerPoint: ".ppt", ".pot", ".pptx", ".pptm", ".potx" & ".potm"
- Quality Assurance
- Quality Logic
- Jeita
- ISO
- Aimtex
- Real-world files

### Output Format Support

- PostScript
- PDF
- Image Formats
- Print-ready Raster

### Delivery Options

- Source Code: C++
- Binary SDK

### Office Version Support

- Microsoft Office '97-2019 and the latest Microsoft 365 updates