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**Linux Reference Driver Specifications
 for ZXP Series Card Printers**

ZXP Linux Reference Driver

The ZXP Linux reference driver program has been developed for Software professionals, organizations and systems integrators who wish to incorporate high-quality card printing into their Linux software environment. The purpose of the program is to provide customers with a Linux evaluation Card printer driver which includes a core set of printer control functions that can be easily tested and evaluated on site. This “reference driver” is available upon request. Custom modifications and specific Linux distribution builds to the Linux driver platform can be ordered through Zebra’s Development Services Group to suit particular customer needs and requirements.

Highlighted Driver Features

- Full Bi-Directional Communication Support
- Printer Plug-In-Play(PNP)
- Complete Driver Installer
- Full User Interface for Printer configuration
- Zebra card printer support for CUPS 1.4 or higher
- Full USB 2.0 Printer Support (2.0 only)
- 32 Bit Linux OS
- 64 Bit Linux OS [ZXPS3 Only]
- Zebra Linux printer driver installer Printer / Driver Error Handling
- General Performance enhancements
- F/W Download, Job Logging
- Installer and Uninstaller Support
- Error Handling

Supported Linux Platforms

- Ubuntu® 11.4
- Ubuntu 11.10 (32 or 64 Bit) or
- Ubutnu 12.04 (32 or 64 Bit) [ZXPS3 Only]
- Kernel Version 2.6
- Kernel Version : 3.0.x.x, 3.2.0

Printer Properties Support

	ZXP3	ZXP7	ZXP8
Device Info Tab	✓		✓
Sensor Information	✓		
Media Information	✓		
Tools Page	✓		

Ribbon and Media Control

	ZXP3	ZXP7	ZXP8
YMCK	✓		✓
YMCKK			✓
YMCKI / YMCKKI			✓
YMCKH			✓
YMCKO	✓		
YMCKOK	✓		
KdO	✓		
KrO	✓		
K Resin	✓		
YMCKO	✓		
Monochrome	✓		
K Panel Optimization			✓
Print test cards via Cups (port 631)	✓		✓

Supported Printer Preferences

- Printer Device Info page
- Basic Settings and configurations
- Landscape printing only
- YMCK front / K Back Ribbon combination supported
- Zebra Linux install screen License screen
- Printer card source / destination setup
- Card print Orientation
- Select Single/Dual side
- Print Front image on back
- Zebra Linux printer About option
- Save & Restore

Driver Installation Layout

File Structure	System path for Ubuntu 11.04
CUPS Service & Path	/etc/init.d/cupsd
CUPS PPD model Path	/usr/share/cups/model
CUPS filter path	/usr/lib/cups/filter
CUPS Zebra Backend	/usr/lib/cups/backend
CUPS config Path	/etc/cups
CUPS LOG Directory	/var/log/cups
Driver Log Directory ZXP3	/home/\$USER/ZXP3Log
Driver Log Directory ZXP8	/tmp
Property Pages	/usr/share/system-config-printer
Zebra ZXP 8 Driver Support Files	/usr/local/ZebraZXP8Driver
Udev rule	/etc/udev/rules.d

Advanced Printer Preference Support

- Portrait and landscape printing
- Magnetic Encoding Functionality
- K (Black) panel optimization
- # of Copies
- Print Test Card
- Clean Printer
- Print Job Logging
- Complete UI Feature support
- PRN File Support

Other Driver Features

	ZXP3	ZXP7(1)	ZXP8
Toolbox Diagnostics	✓		✓
Magnetic Encoding			✓
Smartcard Encoding			
Other Linux Distributions	*	*	*
Printer Sharing (through CUPS only)	✓		✓
Image Control	✓		
Color Profiles/Image Settings			✓
Card Feeder Control	✓		✓
Print test cards via Cups (port 631)	✓		✓

Distributed Driver OS Dependencies

Library	Version	Description
QT core	4.7	Installed with the ZXPS8 driver, only distribution, no modifications
QT UI	4.7	Installed with the ZXPS8 driver, only distribution, no modifications
Python scripts		ZXPS8 used the version Installed as a part of Ubuntu 11.04 distribution

Printer Features/Options Not Supported in Reference Driver

- Smart Card Encoding (contact and Contactless)
- Card Printer SDK support
- Laminating Printers option
- Network printer sharing and printer pooling
- Advanced Printer security features (data encryption, printer host authentication, etc)
- All media (Ribbon types) not currently listed

Zebra Contact

Local Zebra Development Services

* - Other Linux distributions and custom features can be provided by Zebra Development Services.

Please contact Zebra Development Services to request assistance in determining your overall Linux Driver needs and requirements.

<http://www.zebra.com/us/en/products-services/services/development-services.html?mm>

(1) Coming soon. Contact Zebra for ZXP 7 support.