

Zotac Cl325 Ubuntu POS Evaluation



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Eval.docx



Contents

Objective	.3
Testing Performed	.3
Testing Platform	<u>.3</u>
Conclusion	.3
Alterations	4
Specifications	.5
Pictures	6



Objective

Determine if the Zotac CI325 is a compatible point of sale terminal for use with the Ubuntu Order Entry system.

Testing Performed

Item Tested	Pass	Fail
SUS GUI Order Entry	~	
Prep	~	
Cash Out	~	
Daily Cash Control	~	
Till Functions	~	
PXE Load	>	
PHLanding	>	

Results:

- Touch responsive in GUI order entry and GUI applications.
- Terminal calibrates touch via phtscalib_TSG.sh and retains calibration.
- Terminal prints to USB thermal printer and opens cash drawer.

Testing Platform

BOH PC	Dell Optiplex XE – Ubuntu GM45 eRes
POS PC	Zotac CI325
Printer(s)	Epson TM-T88IV
Cash Drawer	Wincor/Nixdorf
Touch Screen	ELO

Conclusion

The Zotac CI325 is compatible for use as a POS terminal.



Alterations

- 1. Installed v86d package
- apt-get install v86d
- 2. Added uvesafb to startup modules
- sudo sh -c "echo uvesafb >> /etc/initramfs-tools/modules"
- 3. Activated module
- sudo modprobe uvesafb
- 4. Gathered supported resolution data
- cat /sys/bus/platform/drivers/uvesafb/uvesafb.0/vbe_modes
- 5. Configured uvesafb to closest supported resolution (640x480)
- sudo sh -c "echo options uvesafb mode_option=640x480-32 scroll=ywrap > /etc/modprobe.d/uvesafb.conf"
- 6. Updated initramfs
- mount /dev/sda1 /boot
- sudo update-initramfs -k all -u
- 7. Removed depreciated vga=768 setting from grub, leave nomodeset in place
- grep vga /proc/cmdline
- grep -ir vga /etc/modprobe.d/
- 8. Updated grub
- mount /dev/sda1 /boot
- update-grub
- 9. Added new Udev rule 100-zotac.rules

SUBSYSTEM=="input", ATTRS{name}=="MCE IR Keyboard/Mouse (nuvoton-cir)", RUN+="/usr/fms/admin/v86dkiller", OPTIONS="last_rule"



10. Added script v86dkiller to /usr/fms/admin

```
#!bin/bash
MB=$(dmidecode -t 2 |grep -ai "Product Name" |sed -e 's/Product Name: //' | tr '[:lower:]'
'[:upper:]' |sed -e 's/^[\t]*//')
MBMFG=$(dmidecode -t 2 |grep -ai Manufacturer |sed -e 's/Manufacturer: //' | tr '[:lower:]'
'[:upper:]' |sed -e 's/^[\t]*//')

if [ "$MBMFG" == "ZOTAC" ]; then
    if [ "$MB" == "ZBOX-CI325NANO" ]; then
    PID=$(ps -ef|grep "/sbin/v86d" |awk {'print $2'} |head -1)
        phzap kill -9 $PID
        echo "killed" > /tmp/v86d.log
    fi
fi
```

- 11. Chmod 777 /usr/fms/admin/v86dkiller
- 12. Deleted /etc/X11/xorg.conf
- 13. Reboot.

Specifications

Motherboard	Proprietary
CPU	Intel(R) Celeron(R) CPU N3160 @ 1.60GHz
Memory	4GB DDR3-1600
HDD	32 GB SATA SSD
Network	RTL8111/8168/8411 PCI Express Gigabit
	Ethernet Controller
Sound	Intel HD Audio



Pictures





