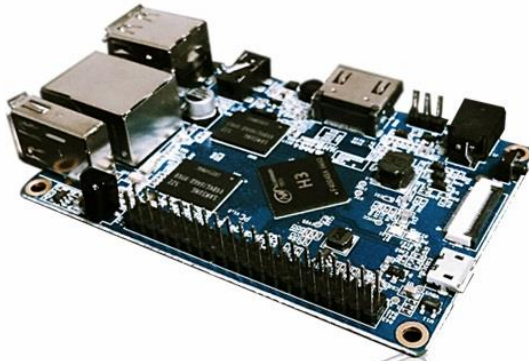


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Orange PI PC v1.2 : hardware , software & services specification



This document is intended to draw the specs regarding the services proposed by ctrl+f Agency in order to present prototyping materials for a subsequent pre-usage of professional devices into a corporate environnement.

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HARDWARE



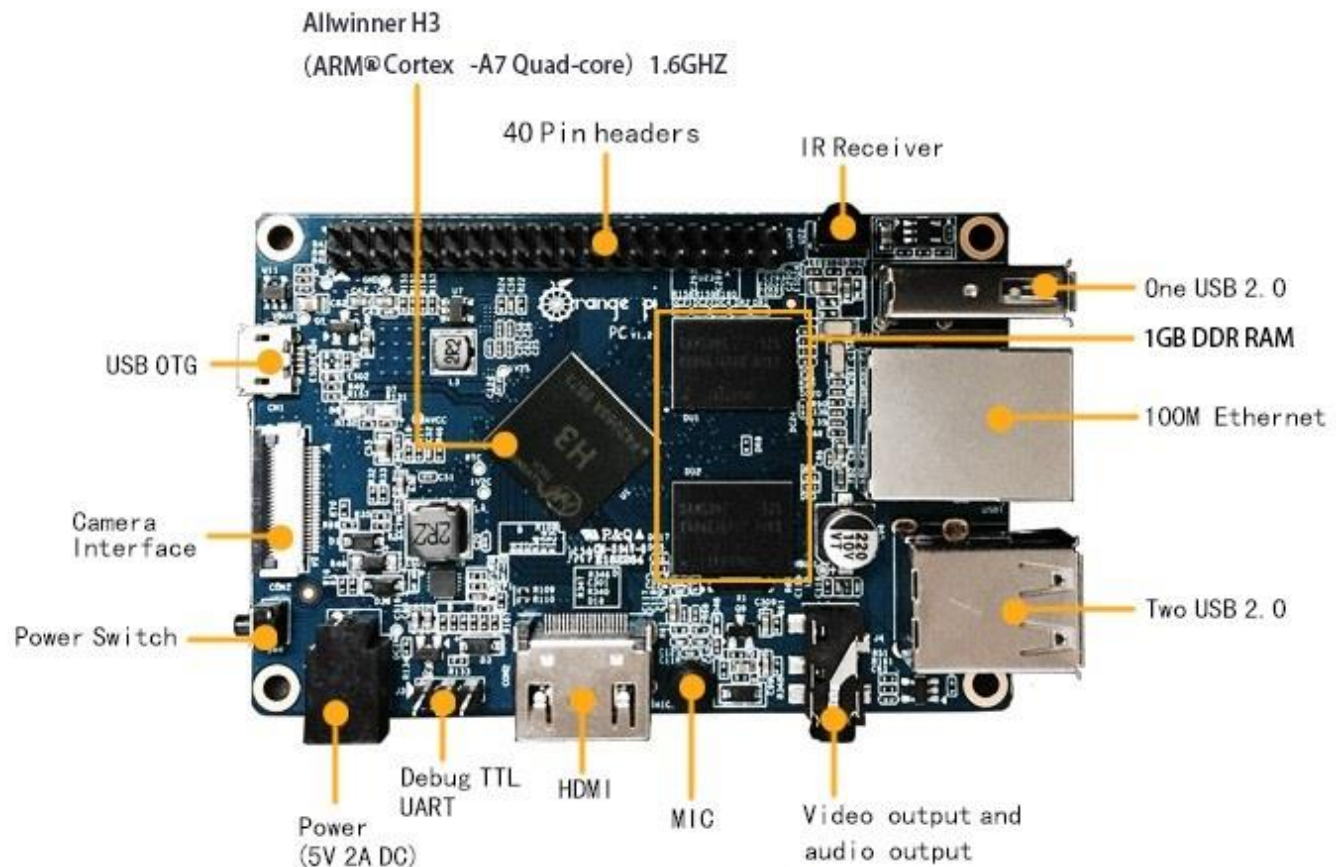
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Top View

Top view



ctrl

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Bottom View

Bottom view



ctrl

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Hardware board specifications

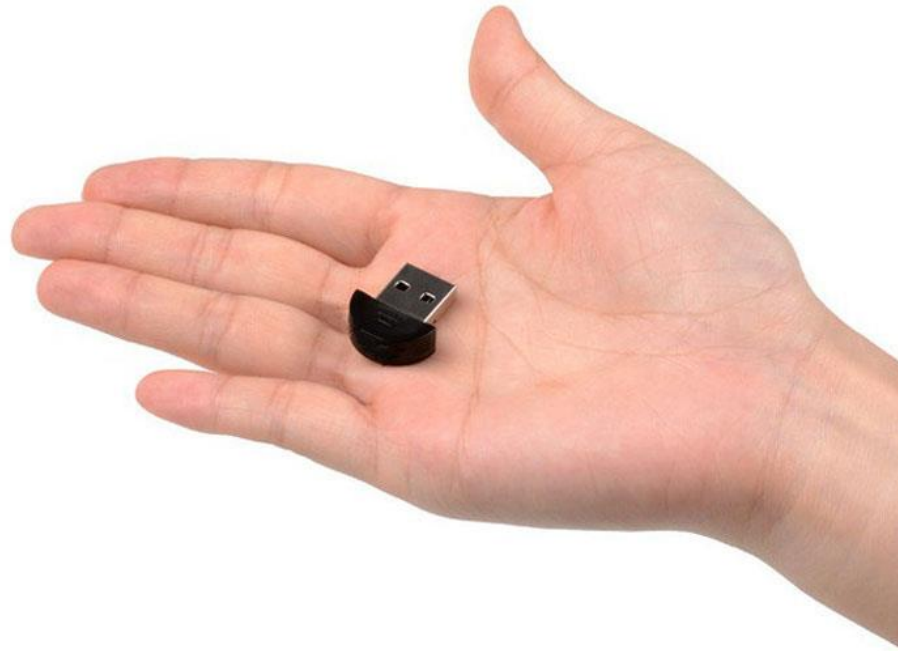
| | |
|-----------------------|--|
| CPU | H3 Quad-core Cortex-A7 H.265/HEVC 4K |
| GPU | <ul style="list-style-type: none"> ·Mali400MP2 GPU @600MHz ·Supports OpenGL ES 2.0 |
| Memory (SDRAM) | 1GB DDR3 (shared with GPU) |
| Onboard Storage | TF card (Max. 64GB) / MMC card slot |
| Onboard Network | 10/100M Ethernet RJ45 |
| Video Input | A CSI input connector Camera: Supports 8-bit YUV422 CMOS sensor interface Supports CCIR656 protocol for NTSC and PAL Supports SM pixel camera sensor Supports video capture solution up to 1080p@30fps |
| Audio Input | MIC |
| Video Outputs | Supports HSupports HDMI output with HDCP Supports HDMI CEC Supports HDMI 30 function Integrated CVBS Supports simultaneous output of HDMI and CVBSDMI output with HDCP |
| Audio Output | 3.5 mm Jack and HDMI |
| Power Source | DC input can supply power, but USB OTG input don't supply power |
| USB 2.0 Ports | Three USB 2.0 HOST, one USB 2.0 OTG |
| Buttons | Power Button(SW4) |
| Low-level peripherals | 40 Pins Header,compatible with Raspberry Pi B+ |
| GPIO(1x3) pin | UART, ground. |
| LED | Power led & Status led |
| Key | IR input, POWER |
| Supported OS | Android, Ubuntu, Debian, Rasberry Pi Image,Openwrt,archlinux... |
| Interface definition | |
| Product size | 85 mm × 55mm |
| Weight | 38g |

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Bluetooth



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Bluetooth specs

Bluetooth V2.0 + EDR

Built-in linux kernel driver for orange pi

USB2.0 specification, backward compatible with USB1.1/1.2

USB bus powered, no power supply is built-in LED work light indication

Frequency :2.400-2.4835 Ghz

Usage Frequency: frequency hopping

Spread spectrum (FHSS)

Transfer Rate: 3Mbit / s (EDR), transmission speed more quickly

Security: 128 bits safe mode

Supports Ubuntu & all Windows systems, including Windows, xp, vista, win7 win 8, etc

Support EDR security mode

Wireless transmission of documents, audio, video, wireless networking features such as wireless printing

Wireless connected devices (such as computer / PDA / mobile phones / printers / wireless game controller) with Bluetooth technology

Support VOIP voice calls seamlessly connect Skype software.

Bluetooth specification V 2.0 & V 1.2 Compliant

Supporting profiles : networking, Dial-up, Fax, LAN access , and Headset

Plug and Play, no driver

Length with only 1.9cm

Working with led lights

Weight: Approx 9g

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Bluetooth headset

4.0
Bluetooth®



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Bluetooth headset specs

| | |
|------------------------|---------------------------------|
| Version: | V4.0 EDR |
| Support: | Linux, iOS, Android etc.. |
| Function: | bluetooth / handsfree /wireless |
| Frequency Range: | 2.4GHz |
| Talk Time: | 4 Hours |
| Standby Time: | 160 Hours |
| Rechargeable Battery: | 150 mAh |
| Receiving sensitivity: | <-80dBm |

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Wireless dongle



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Wireless dongle specs

| |
|--|
| Complies with IEEE 801.11n IEEE 802.11g, IEEE 802.11b standards |
| 1x1 / 1x2 modes |
| STBC Support for Extended Range |
| Legacy and High Throughput Modes |
| 20MHz / 40MHz bandwidth |
| Reverse Direction Data Flow and Frame Aggregation |
| WEP 64/128, WPA, WPA2 Support |
| Multiple BSSID Support |
| Provides USB 2.0 Hi-Speed Interface |
| Cisco CCX V1.0 V2.0 V3.0 Compliance |
| Low Power with Advanced Power Management |
| Works with, Windows 7 Windows XP Windows Vista and Windows 2000 |
| Specification: |
| Standard: IEEE 802.11g IEEE 802.11b CSMA / CA with ACK |
| Interface: USB 2.0 |
| Frequency Range: 2.4GHz-2.4835GHz |
| Radio Data Rate: |
| 11N: 150/54/28/14/7/3 (adaptive) |
| 11G: 54/28/14/7/3 (adaptive) |
| 11b: 11 / 5.5 / 2 / 1M (adaptive) |
| Channel: 1-11 (US Canada) 1-13 (Europe) 1-14 (Japan) |
| Spread Spectrum: DSSS |
| Modulation: BPSK, QPSK, CCK and OFDM (BPSK / QPSK / 16-QAM / 64-QAM) |
| Transmission Distance: Indoor up to 100m, outdoor up to 300m |
| Transmit Power: 15dBm |
| Antenna plus: 2X2dBi |
| LED Indicator: Status |
| Data Security: WPA 64/128-bit WEP TKIP / AES |
| Environment: Operating Temperature: 0-40 degree (32 ~ 104) |
| Operating Humidity: 10%-90% non-condensing |
| Specifications: |
| Original box: NO |
| Net weight: 1.7g |
| Package weight: 10g |
| Color: black |

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Micro SD card



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Micro SD card specs

Type: Micro SD / XC / HC / UHS-I

Capacity: 32GB,64GB,128GB

Packaging: Bulk Packaging

Dimensions 0.43" x 0.59" x 0.039" (11mm x 15mm x 1mm)

Operating Temperature -13° F to 185° F (-25° C to 85 ° C)

Storage Temperature -40° F to 185° F (-40° C to 85° C)

Voltage 3.3v

Weight 0.05 oz (1.4g)

Upper than 10MB/s bandwidth

Waterproof

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Others external
peripherals



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Others external peripherals specs

USB HUB 7 Ports

Plug and play; no driver required.

ON / OFF switches activate or deactivate individual ports.

LED indicator lights show which USB ports are in use at any given time.

Built-in USB cable

Color: Black or White

Supports: Windows 7/ Vista/ XP/ 2000 and Mac OS X 10.2 and higher/ Linux 9.

Size: 16.5x3.5x2.2cm

Cable length: 55cm

European AC Power supply adapter

Input: 100-240VAC 0.3A 50/60HZ

Output: 5V2A

Color: Black

Weight: 75g

HDMI to VGA converter (male female)

Model Number: KBT010144K

Full-size high-definition resolution of 720p or 1080p.

Built-in chipset.

HDMI input: the HDMI input interface.

Weight: 50g.

Color: Black

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Others internal peripherals



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Others internal peripherals specs

Heatsink

1x 14mm(L) x 14mm(W) x 5mm(H) Heatsink for Soc

1x 9mm(L) x 9mm(W) x 4mm(H) Heatsink for Voltage Regulator

1x 9mm(L) x 9mm(W) x 4mm(H) Heatsink for LAN9512

Fan

Orange PI Fan, Active Cooling Fan for Customized Acrylic Case

Support OPI model 2 Customized Acrylic Case & OPI model Plus Customized Acrylic Case

Case

Material : 100% original Acrylic

Color : Transparent

Use For : Orange Pi PC

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Softwares



Xubuntu 15,04 – vivid armhf Image

- ☐ Linux 3.4 kernel
- ☐ Xfce 4.12 – Desktop Environnement
- ☐ LightDM display manager
- ☐ Wireless (mt7601) built'in kernel drivers
- ☐ bluetooth built'in kernel drivers

On demand installed locales :

- ☐ English en_US ,
- ☐ Arabic ar_SA ,
- ☐ French fr_FR

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Hardware acceleration

Ultra HD / HD 1080p Hdmi Experimental drivers for H3
SoC

- ☐ Libdri2
- ☐ Sunxi-mali
- ☐ Libump
- ☐ Xf86-video-sunxifb
- ☐ A10disp
- ☐ Libvdpau-sunxi
- ☐ Sunxi-tools

See <http://linux-sunxi.org/H3> for further info.

- ❑ Crypto : ecryptfs, encfs, veracrypt
- ❑ Connectivity : bluetooth and wireless applet, gammu, wammu, gnokii, Xgnokii, ekiga etc...
- ❑ Maths / Dev : Rstudio, R, Maths libreoffice.
- ❑ Office : libreoffice suite
- ❑ Multimedia : mplayer, mpv..
- ❑ Web-dev : LAMPP
- ❑ Planning : Orage calendar
- ❑ Browsing : firefox with webdeveloper toolbar and noscript plugin, Iceweasel
- ❑ Weather applet
- ❑ Others : vsftpd, samba, gedit, youtube-dl, WiringOP, SPI, 1-wire, Aria2 etc. . .

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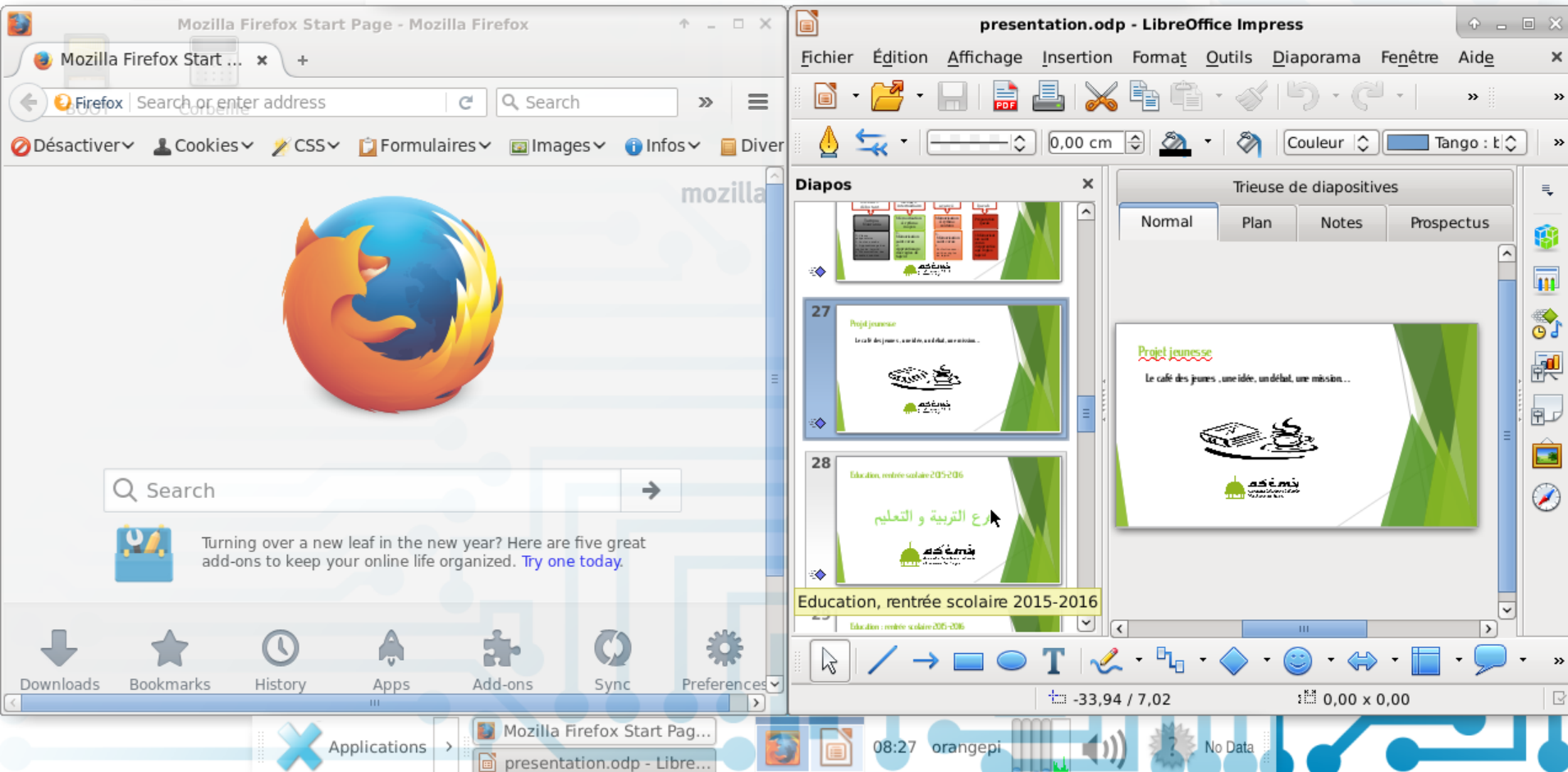
Agency

Screenshots

ctrl

F

Agency



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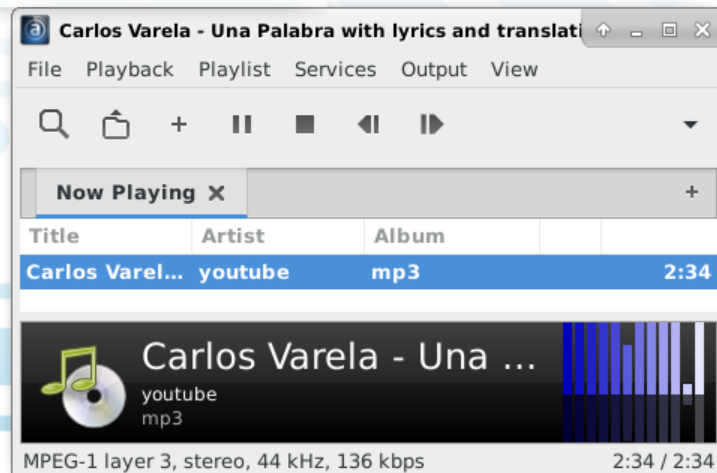
Agency

Screenshots

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Applications



Carlos Varela - Una Pala...

Thibaut LOMBARD - Site...



17:00 orangepi



Épinal, France (388 m)

Partly cloudy

from 09:00 to 11:00, with 0,0 mm of precipitation

Temperature: 1 °C (values at 10:00)

Wind: 14 km/h (2 on the Beaufort scale) from S (180°)

Pressure: 1036 hPa Humidity: 64 %

Fog: 0 % Cloudiness: 44 %

The sun rises at 08:12:40 and sets at 17:20:06.

ctrl

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Screenshots

ctrl

F

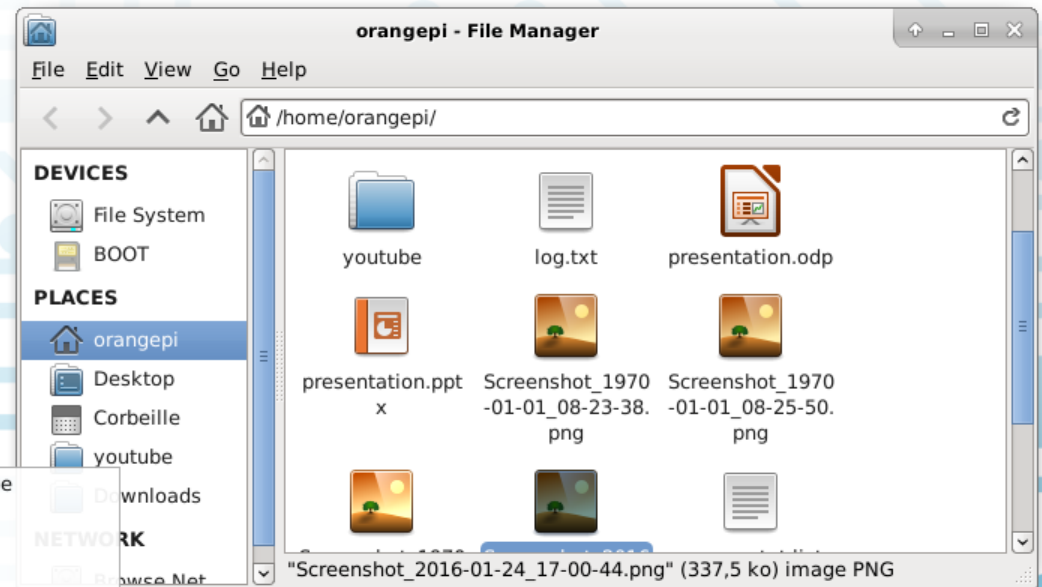
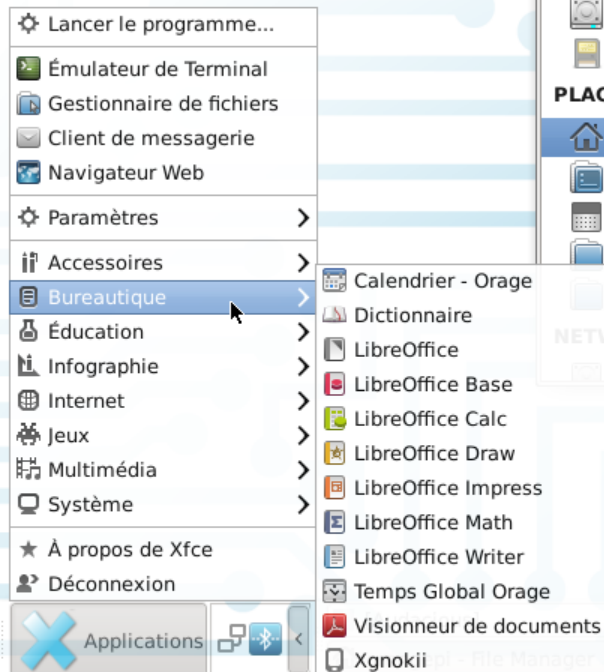
Agency



BOOT



Corbeille



17:02 orangepi



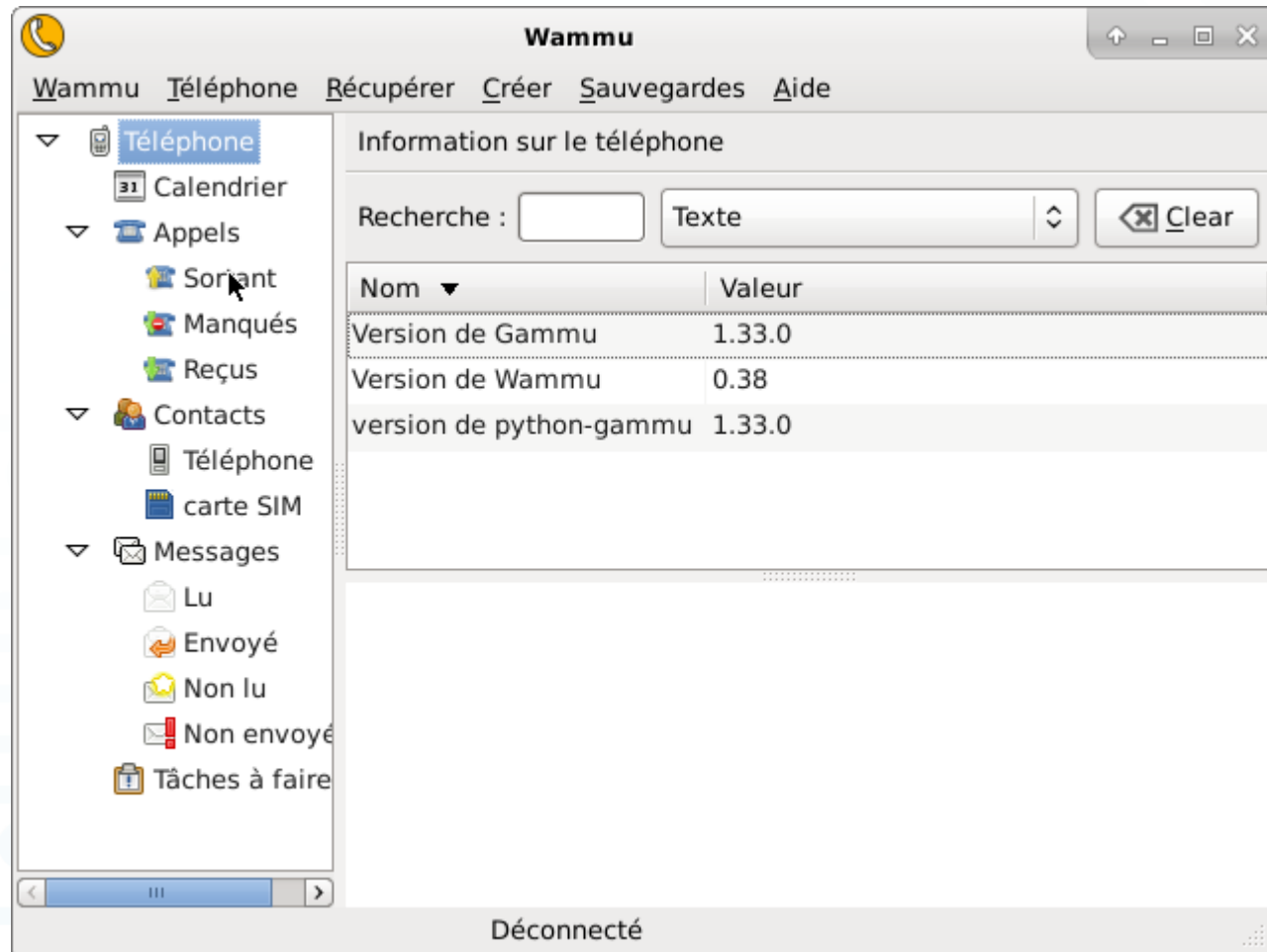
T: 1 °C
WD: S
WS: 14 km/h

ctrl

F

Agency

Screenshots



ctrl

F

Agency

Screenshots

ctrl

F

Agency



RStudio



File Edit Code View Plots Session Build Debug Tools Help

Go to file/function

Project: (None)

Console ~/



R version 3.1.2 (2014-10-31) -- "Pumpkin Helmet"
Copyright (C) 2014 The R Foundation for Statistical Computing
Platform: arm-unknown-linux-gnueabihf

R est un logiciel libre livré sous certaines conditions.
Vous pouvez le redistribuer et/ou le modifier.
Tapez 'license()' ou 'licence()' pour connaître les conditions.
R est un projet collaboratif.
Tapez 'contributors()' pour la liste des contributeurs.
Tapez 'citation()' pour la façon de citer R dans les publications.

Tapez 'demo()' pour des démonstrations.
Tapez 'help()' pour l'aide en ligne ou 'help.start()' pour l'aide au format HTML.
Tapez 'q()' pour quitter R.

Lancer le programme...

Émulateur de Terminal

Gestionnaire de fichiers

Client de messagerie

Navigateur Web

Paramètres

Accessoires

Bureautique

Développement

Éducation

Infographie

Internet

Jeux

Multimédia

Système

À propos de Xfce

Déconnexion

Oracle Java 8 Mission Control

Python (v2.7)

Python (v3.4)

Qt 4 Assistant

Qt 4 Designer

Qt 4 Linguist

Qt Creator

RStudio

Environment

History



Import Dataset



Clear



Global Environment



Environment is empty

Files

Plots

Packages

Help

Viewer



More



Home



Desktop



Downloads



hw_acceleration



img.html~

64 B

Jan 18, 2016, 11:02 AM



log.txt

106 B

Jan 23, 2016, 12:52 PM



presentation.odp

9.6 MB

Jan 20, 2016, 4:20 AM



presentation.pptx

9.8 MB

Jan 18, 2016, 2:45 AM



R



sources.txt.list

808 B

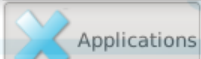
Jan 16, 2016, 12:22 PM



tutoriel

18.2 KB

Jan 18, 2016, 2:48 AM



RStudio

root@OrangePI: /home/...



orangepi

T: 5 °C
WD: S
WS: 20 km/h

ctrl

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Screenshots

ctrl

F

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BOOT



Corbeille

Lancer le programme...

- Émulateur de Terminal
- Gestionnaire de fichiers
- Client de messagerie
- Navigateur Web

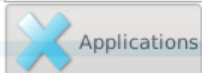
Paramètres

Accessoires

- Bureautique
- Développement
- Éducation
- Infographie
- Internet
- Jeux
- Multimédia
- Système

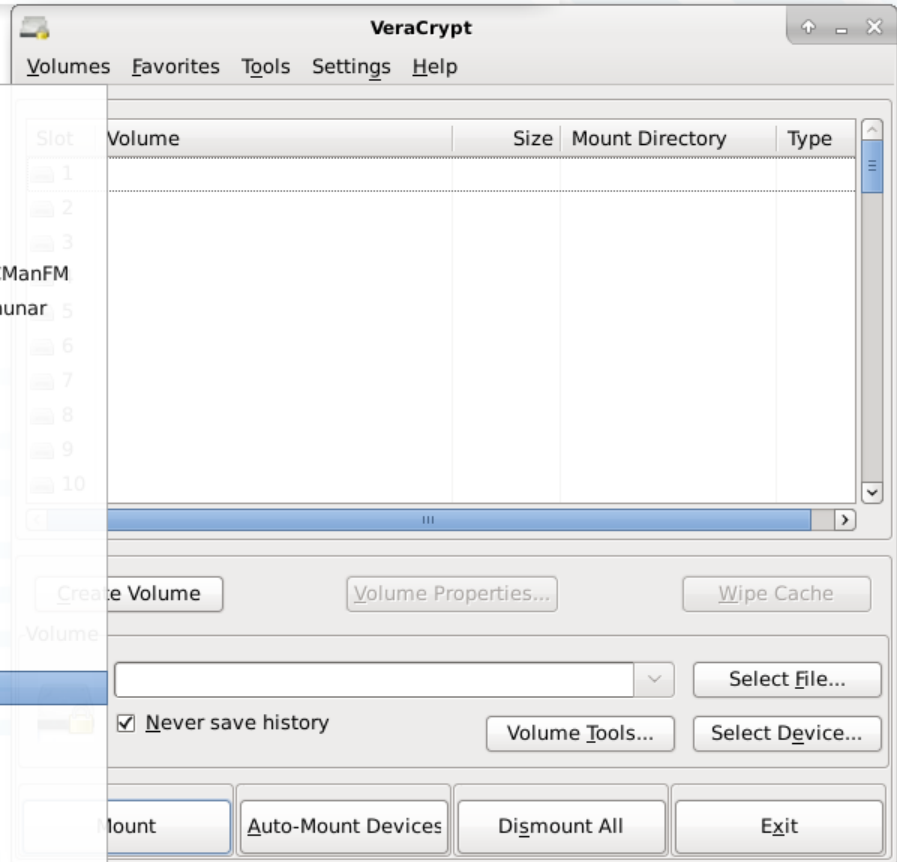
À propos de Xfce

Déconnexion



Applications

- Afficheur de capteur
- Capture d'écran
- Clipman
- Galculator
- gedit
- Gestionnaire de fichiers PCManFM
- Gestionnaire de Fichiers Thunar
- Gestionnaire de tâches
- Leafpad
- Liste des applications
- Menu principal
- Midnight Commander
- Mousepad
- Notes
- Renommer en masse
- Temps Global Orage
- UXTerm
- VeraCrypt**
- Vim
- Visionneur d'images
- Wammu
- Xarchiver
- Xfburn
- Xgnokii
- XTerm



ctrl

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Screenshots

ctrl

F

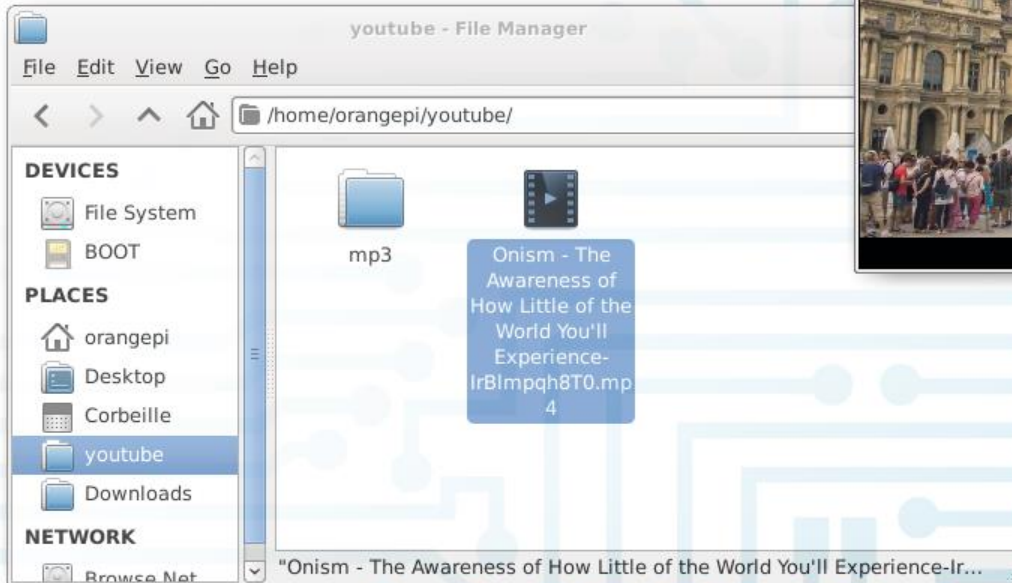
Agency



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Corbeille



Applications



mpv - Onism - The Awar...
youtube - File Manager



08:23

orangepi



This operating system is fitting into this following profiles :

- ☐ IT student
- ☐ Risk Manager
- ☐ ICT engineer
- ☐ Software engineer
- ☐ IT consultant
- ☐ Hardware engineer
- ☐ Big Data Analyst
- ☐ Statistician
- ☐ Web Developer
- ☐ End User

The services proposed with this device:

- ☐ **Prototyping**
- ☐ **Web server hardening**
- ☐ **SMS server**
- ☐ **VPN**
- ☐ **Billboard**
- ☐ **Risk Analysis / Risk management**
- ☐ **Threat Intelligence**
- ☐ **IDS, NAS, IPS, SAN**
- ☐ **Environnemental Control / Monitoring**
- ☐ **Role based Trainings**

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contact

**For further informations
regarding the price and
services feel free to contact
me there :**

contact@ctrlagency.com