

TECNOLOGIA E INFORMÁTICA

PROFESSOR DANILO

Vamos conversar um pouco sobre

- Hardware
 - Computadores
 - Arduino
 - Raspberry
 - Embarcados
 - IoT
- Software
 - Sketch
 - Programas
 - Aplicativos

HARDWARE

O termo em si se refere à ferramentas de modo geral, portanto é a parte mecânica, física e material.



HARDWARE

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Portanto, quando nos referimos à computação, *hardware* é a parte física do computador, por exemplo.



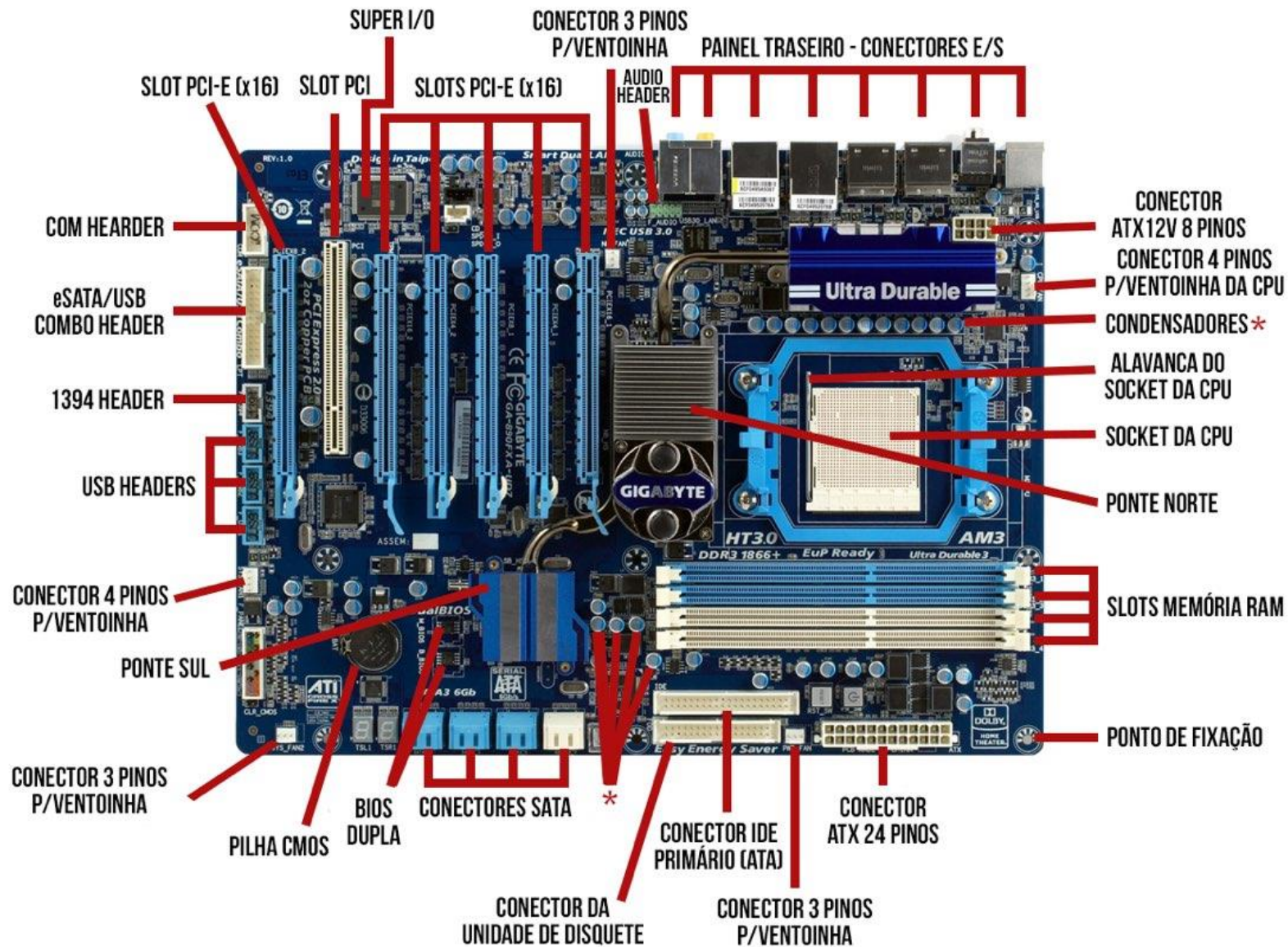
EXEMPLOS DE HARDWARE

- Computadores



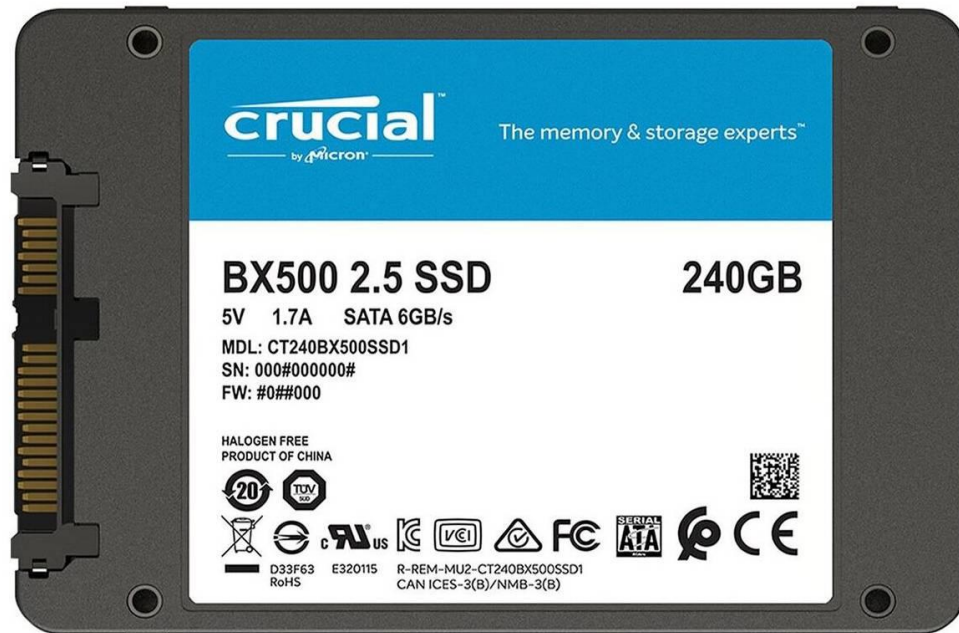
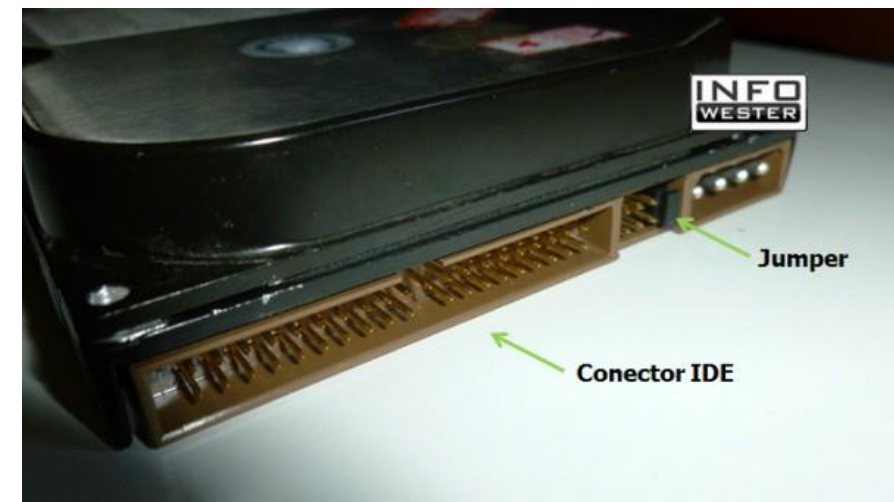
EXEMPLOS DE HARDWARE

- Computadores
 - Placa mãe



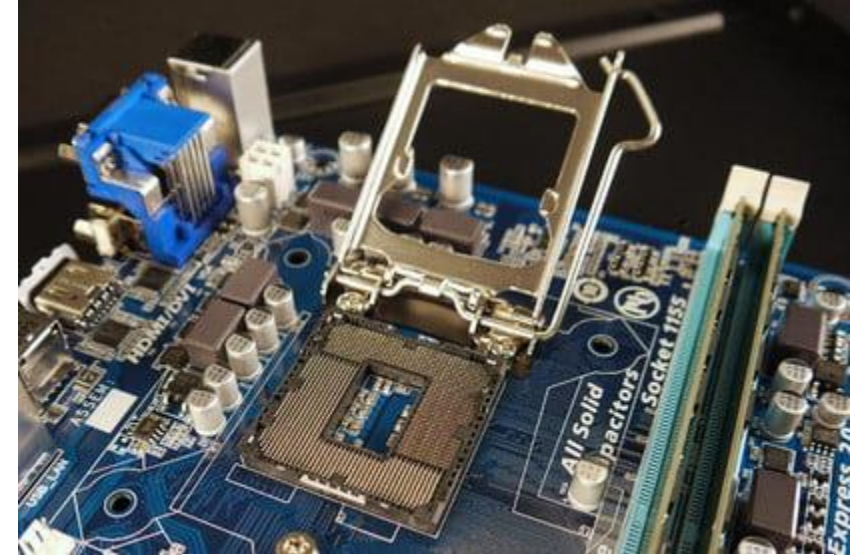
EXEMPLOS DE HARDWARE

- Computadores
 - Placa mãe
 - HD e SSD



EXEMPLOS DE HARDWARE

- Computadores
 - Placa mãe
 - HD e SSD
 - Processador



EXEMPLOS DE HARDWARE

- Computadores
 - Placa mãe
 - HD e SSD
 - Processador
 - Componentes



EXEMPLOS DE HARDWARE

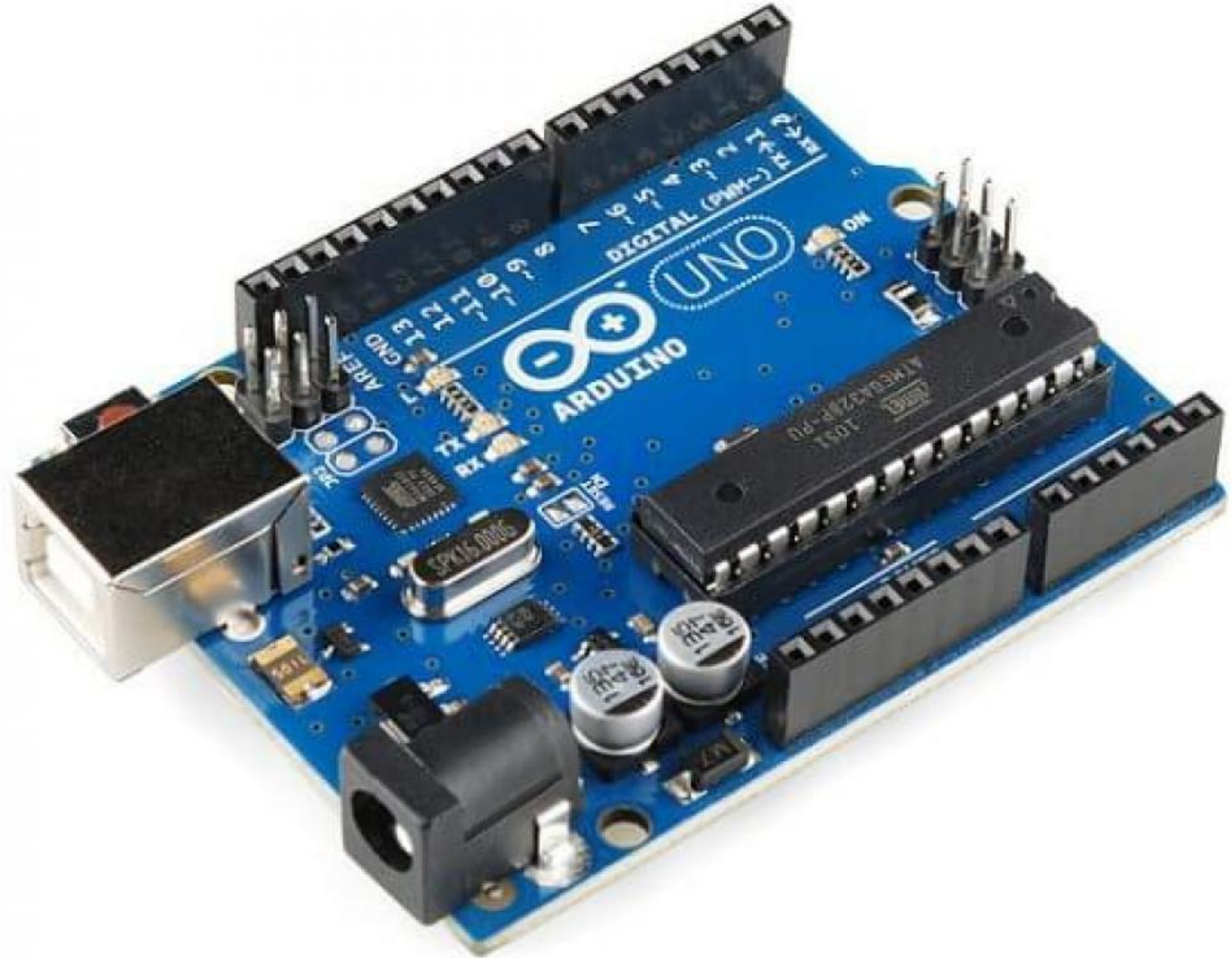
- Computadores
 - Placa mãe
 - HD e SSD
 - Processador
 - Componentes
 - Periféricos



EXEMPLOS DE HARDWARE

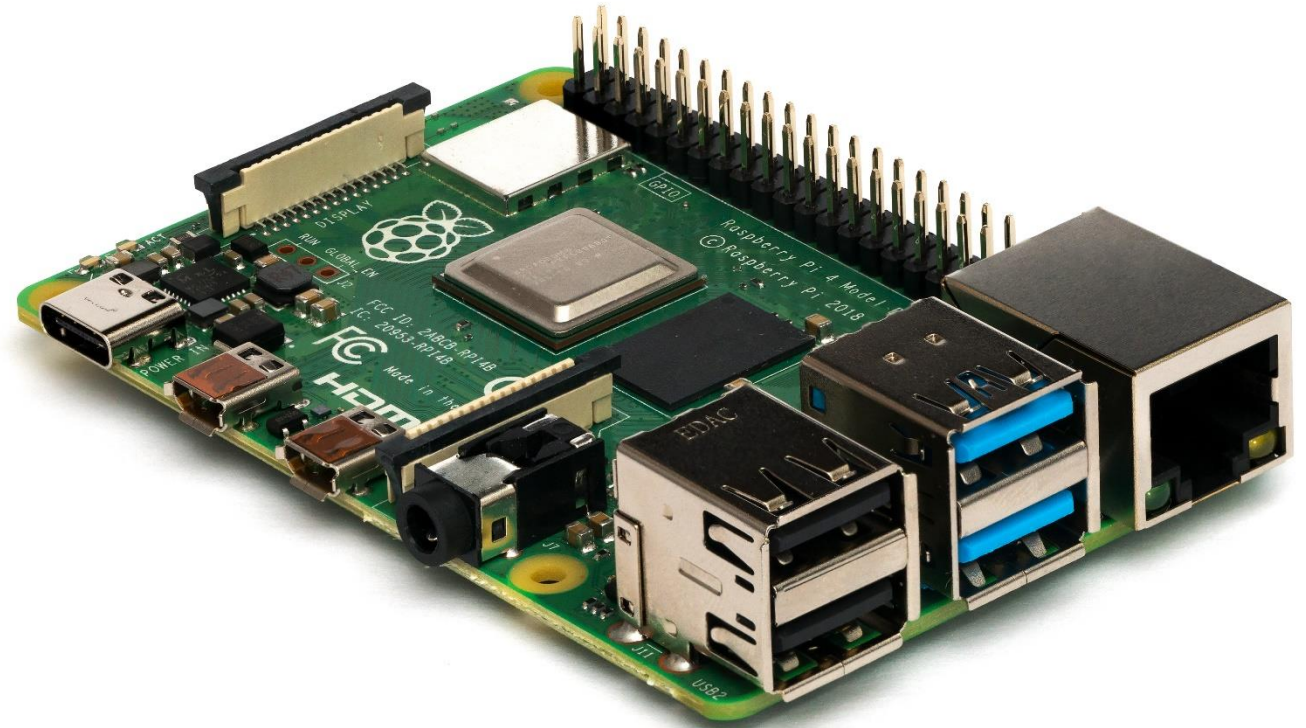
- Arduino

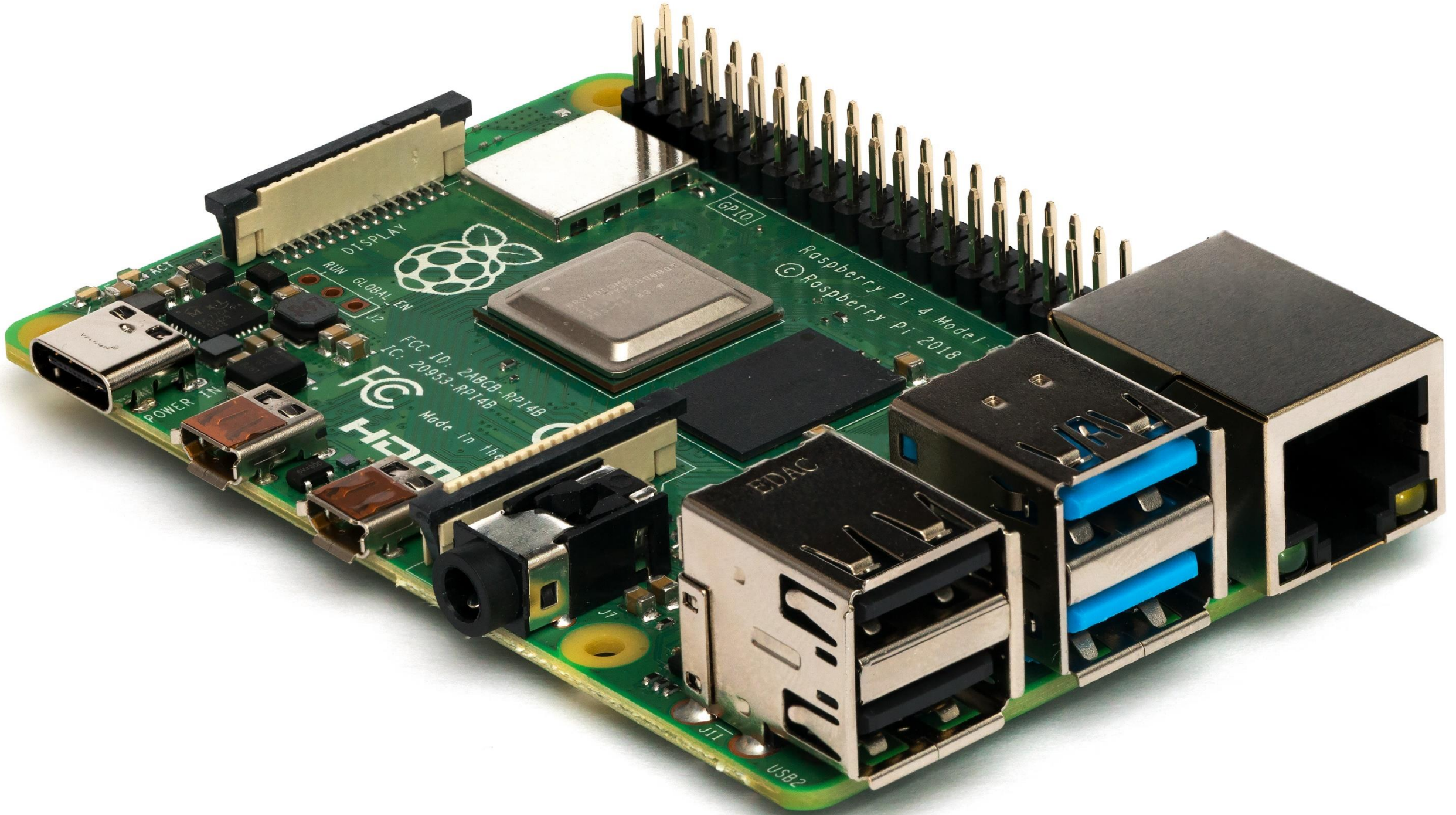




EXEMPLOS DE HARDWARE

- Raspberry





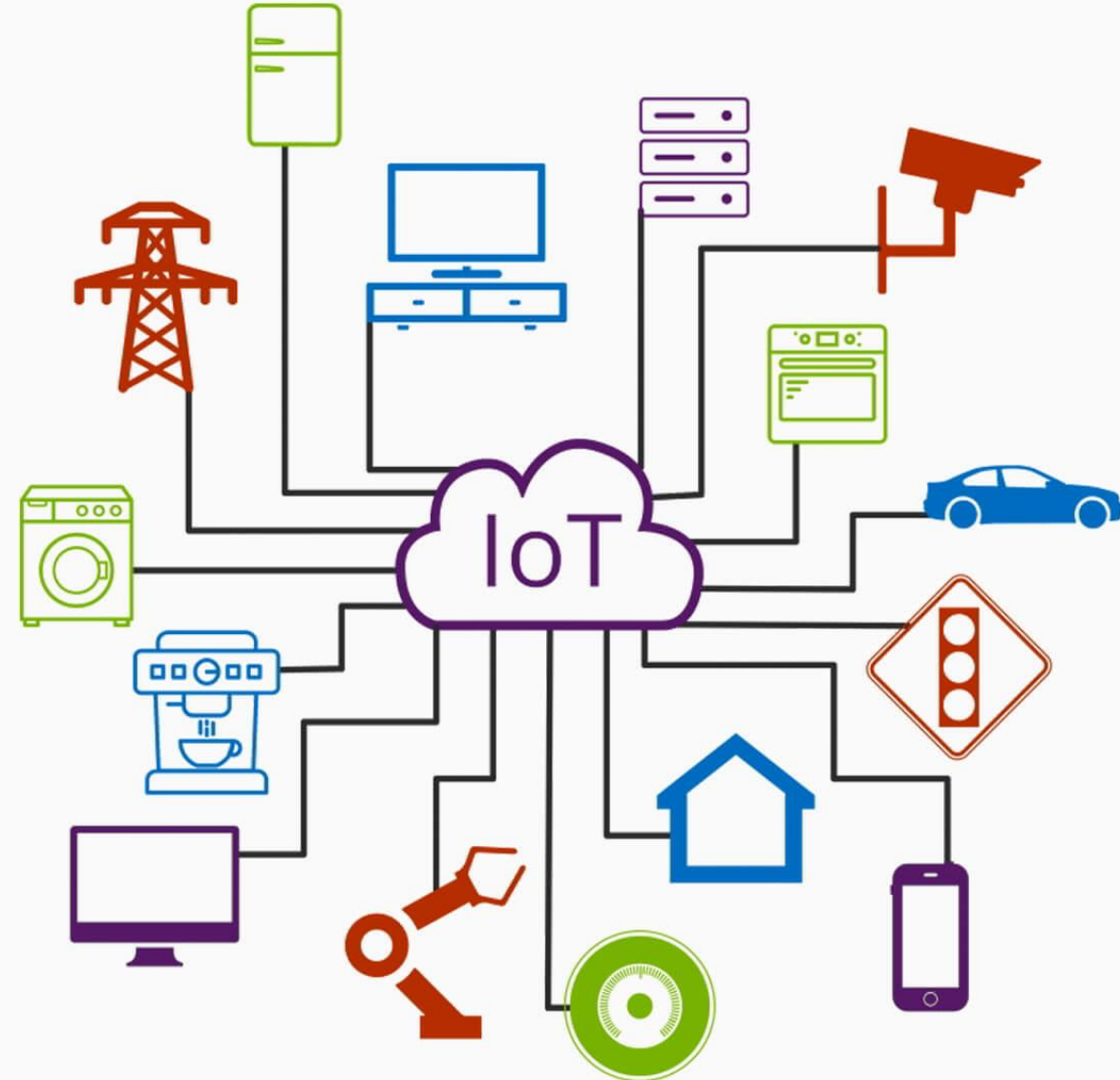
EXEMPLOS DE HARDWARE

- Embarcados




EXEMPLOS DE HARDWARE

- IoT
 - Internet das Coisas ou *Internet of Things*



LOUCURA... MAS COMO CONTROLAR TUDO?

- Software

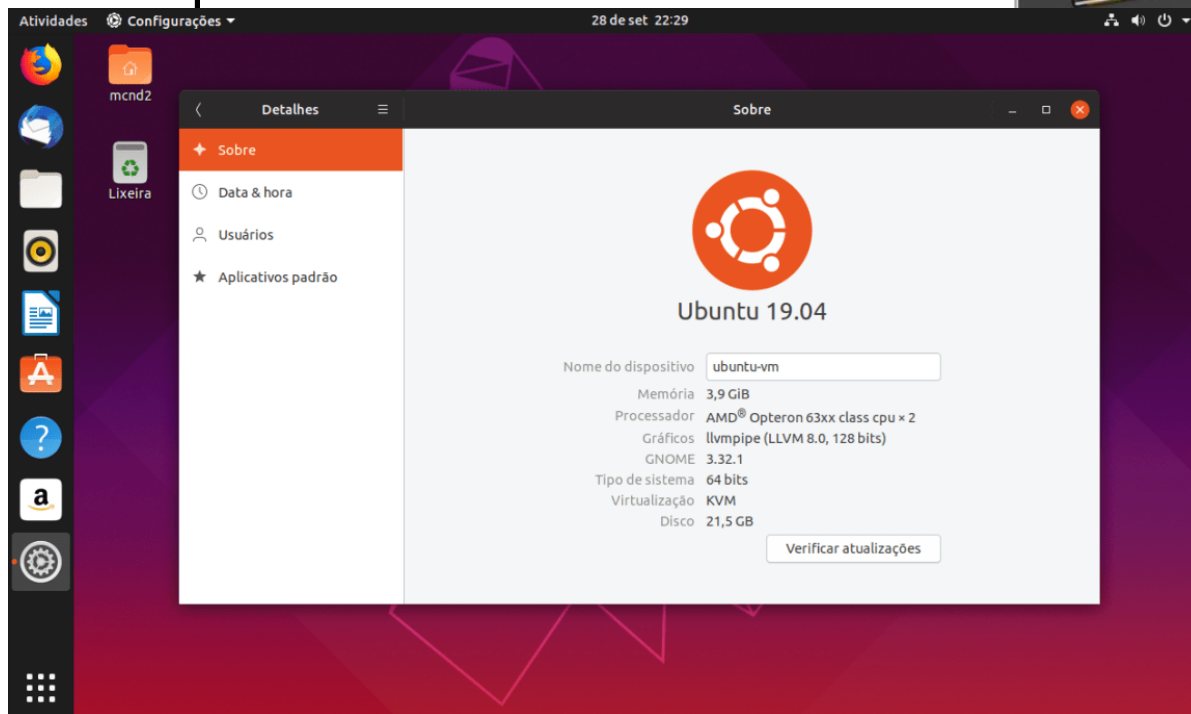
- Sketch 
- Programas
- Aplicativos

```
1  |/*
2  |  Blink
3  |  Turns on an LED on for one second, then off for one second, repeatedly.
4  |
5  |  Most Arduinos have an on-board LED you can control. On the Uno and
6  |  Leonardo, it is attached to digital pin 13. If you're unsure what
7  |  pin the on-board LED is connected to on your Arduino model, check
8  |  the documentation at http://arduino.cc
9  |
10 |  This example code is in the public domain.
11 |
12 |  modified 8 May 2014
13 |  by Scott Fitzgerald
14 |  */
15 |
16 |
17 | // the setup function runs once when you press reset or power the board
18 | void setup() {
19 |   // initialize digital pin 13 as an output.
20 |   pinMode(13, OUTPUT);
21 | }
22 |
23 | // the loop function runs over and over again forever
24 | void loop() {
25 |   digitalWrite(13, HIGH);   // turn the LED on (HIGH is the voltage level)
26 |   delay(1000);              // wait for a second
27 |   digitalWrite(13, LOW);    // turn the LED off by making the voltage LOW
28 |   delay(1000);              // wait for a second
29 | }
```

LOUCURA... MAS COMO CONTROLAR TUDO?

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LOUCURA... MAS COMO CONTROLAR TUDO?

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Lixeira



Camtasia Studio
8



Adicionados recentemente

- OneDrive
- A
- Acessórios do Windows
- Adquira o Office
- Alarmes e Relógio
- Aplicativo Lista de Leitura
- Apple Software Update
- C
- Calculadora
- Calendário
- Câmera
- Candy Crush Soda Saga
- Central de Segurança do Window...
- Clima
- Conectar
- Configurações
- Cortana

Criar

13
terça-feira
Calendário

Somos compatíveis com o Gmail
Email

OneCalendar

Adquira o Offi...

OneNote

Explorar

Loja

Microsoft Edge

Clima

Notícias

Skype Preview

Reproduzir

Mais maneiras de jogar. Junt...

Xbox

Fotos

XBOX LIVE

Microsoft Solitaire Collection

SODA

8

Fallout Shelter

March of Em...

Re...



⌵ Digite aqui para pesquisar



Screen Time

Michael

Last Week ◊ **2h 52m per day** • 23m below average Today

Productivity: 1h 22m Social Networking: 1h 5m Entertainment: 25m

Show: **Apps** Categories Time Limits


App	Time	Limits
All Apps	9h 17m	
Safari	2h 5m	
Messages	1h 44m	⌘
Slack	43m	⌘
Mail	37m	
Xcode	30m	
System Preferences	12m 55s	

Michael's MacBook Pro Updated today at 9:41 AM



< Detalhes Sobre ×

- ◆ Sobre
- 🕒 Data & hora
- 👤 Usuários
- Aplicativos padrão



CentOS Linux 8

Nome do dispositivo

Memória 3,8 GiB

Processador Intel® Core™ i7-4790K CPU @ 4.00GHz × 8

Gráficos llvmpipe (LLVM 7.0, 256 bits)

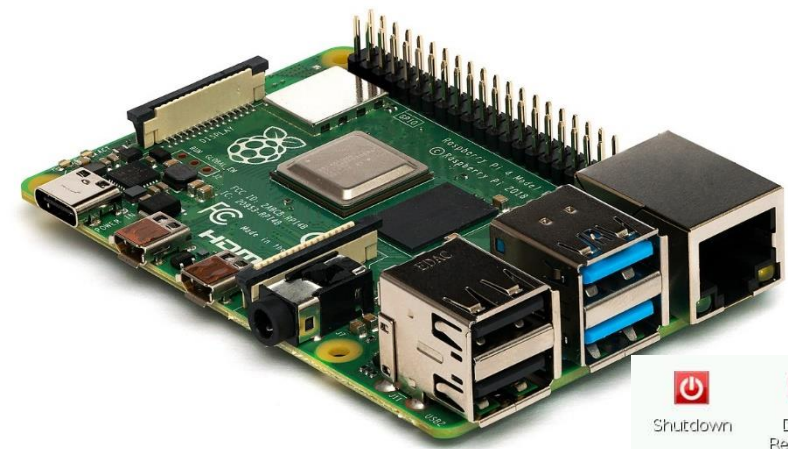
GNOME Versão 3.28.2

Tipo do SO 64 bits

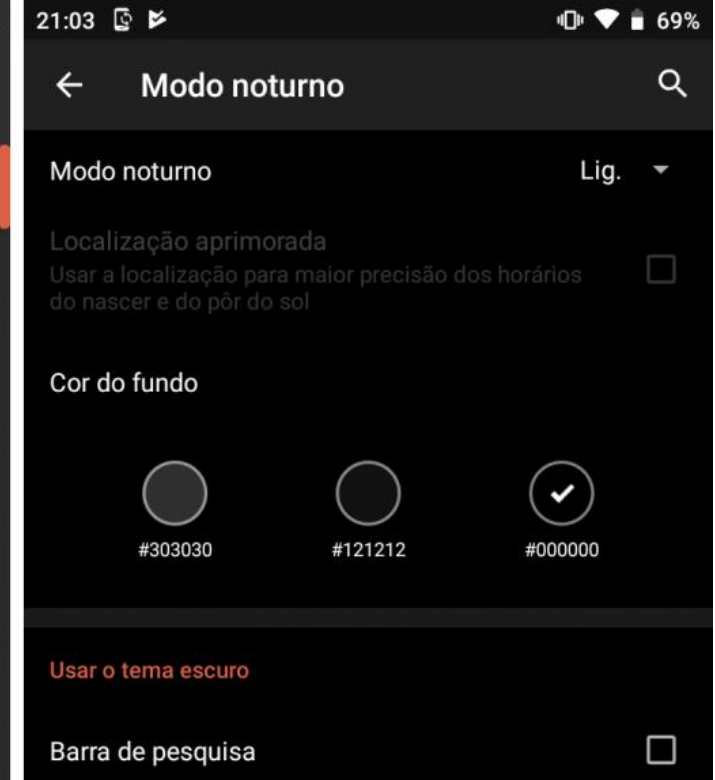
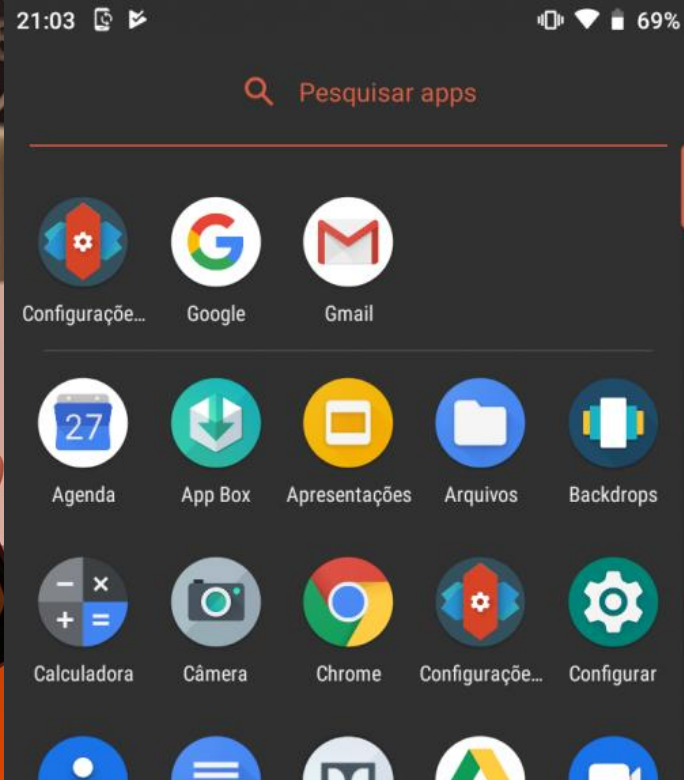
Virtualização KVM

Disco 18,2 GB

Verificar atualizações



A screenshot of a Linux desktop environment on a Raspberry Pi. The desktop background is light green and features a large, stylized Raspberry Pi logo in the center. On the left side, there is a vertical dock with application icons: Shutdown, Debian Reference, IDLE, WIFI Config, OCR Resources, IDLE 3, Scratch, PI Store, Minecraft Pi, and Wolfram. Below these are icons for Sonic Pi, LX Terminal, and a globe. At the bottom, a menu bar lists categories like Accessories, Education, Games, Graphics, Internet, Other, Programming, Sound & Video, System Tools, Preferences, Run, and Logout. In the center, a file manager window titled 'pi' is open, showing the directory tree for /home/pi with subdirectories Desktop, python_games, and /. The main pane displays three items: Desktop, python_games, and ocr_pi.png. The status bar at the bottom of the window shows '3 items (14 hidden)' and 'Free space: 4.7 GB (Total: 7.6 GB)'. On the right, a terminal window titled 'pi@raspberrypi: ~' is open, displaying the command 'scrot -d 5' and a black screenshot area. The system tray at the bottom right shows the time '09:17' and system icons.







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- Software

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APLICATIVOS

- São *softwares* com aplicações específicas



Voltando ao começo

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